

#### **SHOP OPERATIONS**







#### WIIFM



 During this week of instruction you will be introduced to the items that an operator will utilize and come into contact with on a daily basis while completing his/her mission as a basic, heavy equipment operator.



#### **OVERVIEW**



Ground Equipment Records and Forms

Tools and Materials

Safety Information

Operational Risk Management



#### Terminal Learning Objective

Provided references, facilities, forms, personnel, tools and engineer equipment, conduct shop operations to maintain unit readiness without injury to personnel or damage to equipment.



Given technical manual short titles, and without the aid of reference, identify the four elements of a short title per MCO P4790.2C.



With the aid of reference, identify lubrication orders utilized in the maintenance and operation of engineer equipment per TM-09135C-OR/A.



Without the aid of reference, identify the levels of maintenance per MCO P4790.2C.

Without the aid of reference, identify petroleum, oils, and lubricants (POL) utilized in the maintenance and operation of engineer equipment per the Student handout.



Without the aid of reference, identify tools utilized in the maintenance and operation of engineer equipment per the SL-3-11825A.



Without the aid of reference, select the correct records and forms per the TM 4700-15/1\_.

Without the aid of reference, identify the levels of operational risk management per the MCO 3500.27.

- Informal Lecture Method
- Power Point
- Student Handout
- Technical Manual
- Lubrication Order



# ADMINISTRATIVE INSTRUCTIONS



Complete IRF's following the POI



#### **EVALUATION**





 On the 5<sup>th</sup> training day there will be a 25 question written performance exam utilizing a LO.



#### **SAFETY**



- IF AT ANYTIME THERE IS A FIRE MAKE YOUR WAY OUT THE BACK DOOR AND GET IN FORMATION BY THE OAK TREES FOR ACCOUNTABILITY AND FURTHER WORD TO BE PASSED.
- IF WE SHOULD HAVE INCLEMENT WEATHER STAY IN THE CLASSROOM AND WAIT FOR FURTHER INSTRUCTIONS.





#### **TECHNICAL MANUALS**



#### **OVERVIEW**



Characteristics of TM's

 Accessing the information contained in a TM



#### **PURPOSE**

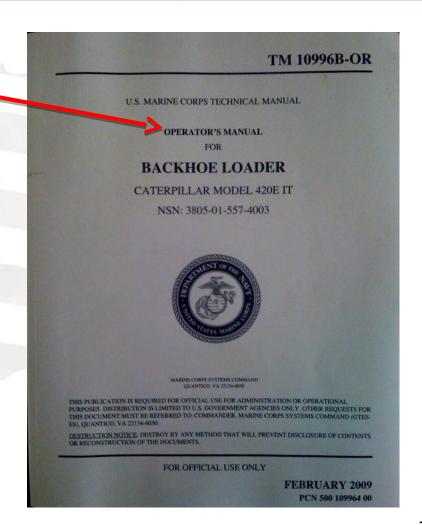


- Characteristics
- Capabilities
- Specifications
- Maintenance
- Emergency operations
- Operation
- Safety practices





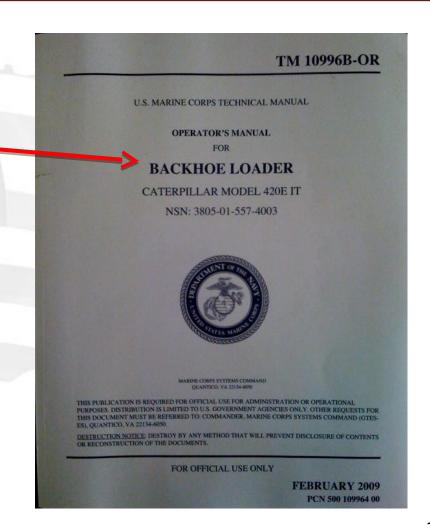
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- Model designation
- National stock number (NSN)
- Date of publication
- Short title







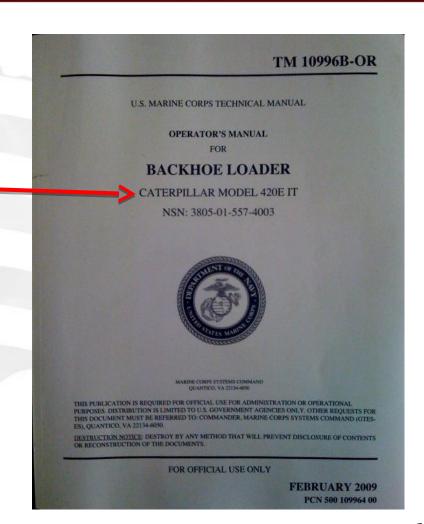
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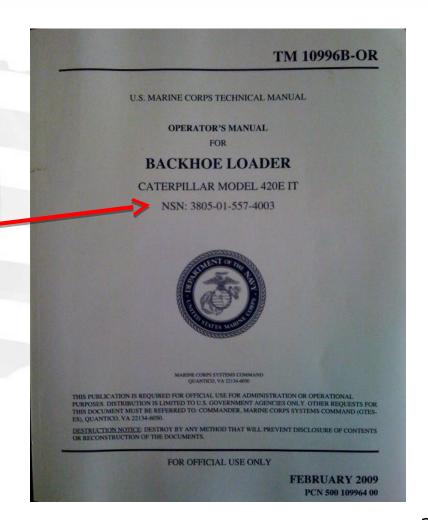


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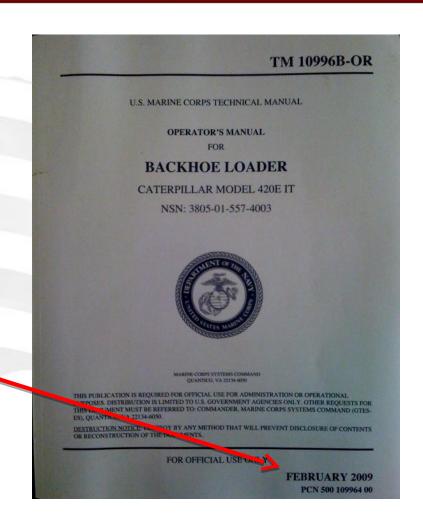
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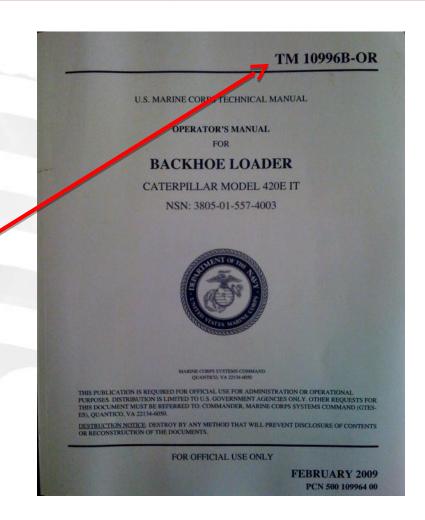
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### TM 10996B - 24/2

- "TM" indicates the type of manual
  - TM = Technical Manual
  - UM = Users Manual
  - LO = Lubrication Order
  - TI = Technical Instruction, etc.





### TM <u>10996</u>B - 24/2

- "09135"
  - End item ID number
  - Designator number





### TM 10996B - 24/2

- "B"
  - End item model





### TM 10996B - <u>24</u>/2

- "24"
  - Echelons of maintenance
  - 2<sup>nd</sup> thru 4<sup>th</sup>





### TM 10996B - 24/2

- "2"
  - Volume number





## QUESTIONS?





## 10 min break







#### **OVERVIEW**



Echelons

Levels of Maintenance

Operator Responsibilities





- Past
  - 1<sup>st</sup> Echelon (Operator)
  - 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> Echelon (Maintainers)





- Organizational maintenance performed by the trained operator I.A.W T&R standards
  - Cleaning
  - Inspecting
  - Preserving
  - Lubricating
  - Adjusting





- Intermediate Maintenance actions performed by specialty trained personnel normally in support of using organizations.
  - Calibration
  - Repair
  - Replacement
    - unserviceable parts, components or assemblies





 <u>Depot</u> – Maintenance performed on material requiring major overhaul or complete rebuild of parts, subassemblies, assemblies or end items.





## QUESTIONS?





## 10 min break





#### Lubrication Order



#### **OVERVIEW**



Characteristics of a Lubrication Order

Utilization of a Lubrication Order



#### **PURPOSE**



- Characteristics
- Contents
- Utilization

# LUBRICATION STRUCTION /ORDER

#### · LO

- Contained in the 1st echelon manual
- Separate publication
- Utilized to complete PMCS

# LUBRICATION STRUCTION /ORDER

#### · LO

- Contents
  - <u>Interval</u>-The frequency in which the item is maintained.
  - <u>Item</u> The item on the equipment, which is to be maintained.
  - Maintenance points This is the number of places where the listed item can be found.





## 10 min break

# LUBRICATION STRUCTION /ORDER

#### • <u>LO</u>

- Also Contains
  - <u>Description</u>- This tells the operator the required maintenance action.
  - <u>Material</u> This tells the operator what material, if any, is required for a particular item.
  - Recommended <u>lubricants</u> This area tells the operator the <u>lubricants</u> required to complete PMCS

# LUBRICATION STRUCTION /ORDER

#### • LI & LO's

- Lubrication Instruction may differ in layout
- Contains similar information as the Lubrication Order





## QUESTIONS?



#### **SUMMARY**



Characteristics of a LO

How to utilize a LO

Reference is Power





## 10 min break





# PETROLEUM, OIL AND LUBRICANTS (POL'S)



#### **OVERVIEW**



- Purpose
- Characteristics
- Function
- Identification





- Lubricants
  - -Solid / liquid
  - -Reduces friction
  - -Reduces wear
  - -Distribute heat





- Classifying Oils
- Oils are classified be their Viscosity
  - Viscosity = Thickness
  - The higher the viscosity the thicker the Oil
  - "Example" 70w has a higher viscosity (or thickness) than 10w





- MULTI VISCOSE OIL'S -
- <u>15w40</u> is an example of a multi viscose oil. This means that the oil has a viscosity of 15, but when heated up it thickens to a viscosity of 40.



#### OPERATOR RESPONSIBILITIES



- Accountable for proper lubrication
  - Operator's are held responsible for
    - Malfunctions
    - Damage
    - Production loss





# Common POL's UTILIZED IN Engineer Equipment





- Oil, Engine (OE)
  - Lubricates internals
  - Improves sealing
  - Dissolves Contaminates
  - Stops corrosion
  - Removes heat





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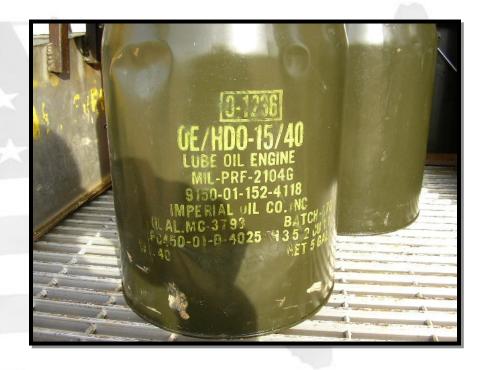


- Oil, Engine (OE)
  - Lubricates internals
  - Improves sealing
  - Dissolves Contaminates
  - Stops corrosion
  - Removes heat





- 15w40
- 1qt 55gal
- Technical Manual







Hydraulic Oil (HDO)

- Transfers engine power
  - Hydraulic cylinders
  - Hydraulic motors





- 10w
- 1qt 55gal
- Technical Manual







## 10 min break





#### Transmission Fluid

– A special hydraulic fluid sent under pressure by the transmission's internal oil pump through the valve body to control the clutches and the bands in order to control the planetary gear sets inside the transmission.





#### Transmission Fluid

- Light HDO
  - 10w
- Full Synthetic
  - Dextron V
- OEM Specifications per TM







Transmission Fluid

Packaging similar to OE/HDO

- 1qt - 55gal





Gear Oil (GO)

- Manual transmissions
- Transfer cases
- Planetary gear hubs
- Differentials





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- Gear Oil (GO)
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- High Viscosity
  - 75w 140w

- 80w90
  - Most common







Grease Artillery Automotive (GAA)

 A thick viscous substance used to lubricate metal on metal contact

 Primary grease used externally on equipment pivot points





- Grease Point
  - Lubes pivot point









#### Grease zerk fitting



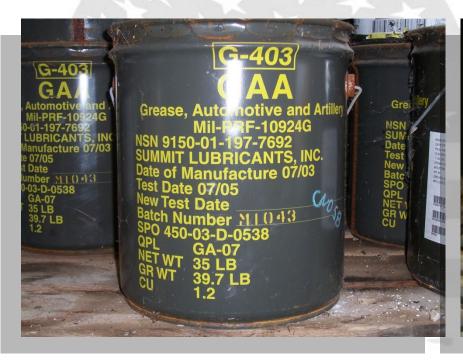






#### 35 lb

#### Grease Tube









- Antifreeze
  - Ethylene Glycol
    - Vehicle cooling system
      - Raises boiling point
      - Reduces freezing point
      - 50/50 ratio
      - Operator is responsible for pre mix





- Antifreeze
  - Ethylene Glycol
    - Vehicle cooling system <u>Radiator</u>
    - Raises boiling point
    - Reduces freezing point
    - 50/50 ratio
    - Operator is responsible for pre mix





- Antifreeze
  - Ethylene Glycol
    - Vehicle cooling system
      - Raises boiling point
      - Reduces freezing point
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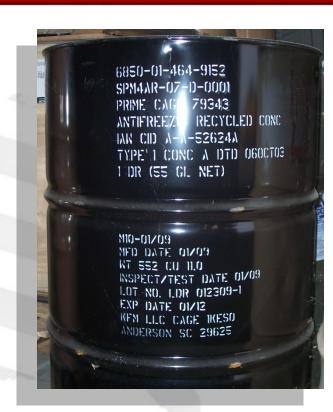


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#### Antifreeze

- Extended Life Coolant (ELC)
  - Longer service life
  - Reduced Corrosion
  - Do not mix or dilute
  - See TM





### QUESTIONS





## 10 min break





## POL Shed Demonstration





## TOOLS



#### **OVERVIEW**



- Purpose
- Identification
- Proper use



#### **TOOLS**



#### General Mechanic's Toolbox

- Operator/Mechanic
- OrganizationalLevel Maintenance





#### TOOLS CONT.



- **B.O.B.** 
  - Basic Operators Bag
- Organizational Level
   Maintenance









## 10 min break





## GMTB / BOB Demonstration





## QUESTIONS



#### **SUMMARY**



- Purpose
- Identification
- Proper Use

!!Use the right Tool for the right job!!







### 10 min break





# GROUND EQUIPMENT RECORDS AND FORMS



#### **OVERVIEW**



- NAVMC 10523
- NAVMC 10524
- SF 91
- SF 94
- DD 518



#### Uses

 Implementation, accountability, readiness of operators and equipment IOT complete the engineering mission.





# ENGINEER EQUIPMENT OPERATIONAL RECORD NAVMC 10523 (TRIP TICKET)



#### **OVERVIEW**



- Trip ticket
  - Implementation
  - Purpose
  - Dispatcher Responsibilities
  - Operator Responsibilities
  - Characteristics
  - Preparation



#### **PURPOSE**



- Authority to operate a piece of equipment on an assigned mission.
- Checklist for conducting daily PMCS.
- Recording mileage or hours for equipment operation so that PMCS may be scheduled.
- Need not be prepared when equipment has an ERO submitted, or is operated in the motor pool.

































#### TRIP TICKET







#### TRIP TICKET







# TRIP TICKET (FRONT)



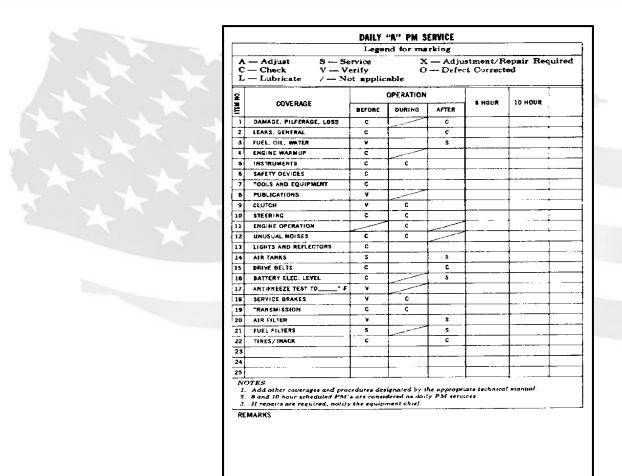
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# TRIP TICKET (BACK)

★ U.S. GOVERNMENT PRINTING OFFICE: 1993-735-234









## Dispatcher Responsibilities





"Mission Data"





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- Date
- Equipment
- Serial #
- Organization
- 1st
  - Operator
- Time Out

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		OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MILE DUE			HOUR/MILE DUE	HOUR/MILI COMPLETE	TYPE PM DUE	HOUR/MILE DUE	HOUR/MIL COMPLETE
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	1ST OP PILO DISPAT  WC PERFO  FUE	Pile, Jii DISPATCHER'S  2ND OPERATOR  DISPATCHER'S  WORK PERFORMED  FUELS  DIESEL GAS (GAL) (GAL)	1ST OPERATOR PILE, Jimmy, DISPATCHER'S SIGNAT  2ND OPERATOR  DISPATCHER'S SIGNAT  1ST OPE WORK PERFORMED 2ND OP  FUELS DIESEL GAS OE (QTS)	1ST OPERATOR Pile, Jimmy, Bob DISPATCHER'S SIGNATURE  2ND OPERATOR DISPATCHEB'S SIGNATURE  1ST OPERATOR WORK PERFORMED 2ND OPERATO FUELS LUBES DIESEL GAS OE GO (GAL) (GAL) (QTS)	1ST OPERATOR PILE, Jimmy, Bob DISPATCHER'S SIGNATURE  2ND OPERATOR  DISPATCHEB'S SIGNATURE  TOTAL  1ST OPERATOR  WORK PERFORMED  2ND OPERATOR  FUELS  LUBES DIESEL GAS OE GO GREASE (GAL) (GAL) (QTS) (QTS)	TIME  1ST OPERATOR PILe, Jimmy, Bob  DISPATCHER'S SIGNATURE  2ND OPERATOR  IN  OUT  0730  TOTAL  2ND OPERATOR  IST OPERATOR  WORK PERFORMED  2ND OPERATOR  FUELS  LUBES  OIL CI  DIESEL GAS  (GAL) (GAL)  (QTS) (QTS)  (QTS)  OUT  OTAL  OUT  TOTAL  1ST OPERATOR  FUELS  OIL CI  OIL	TIME HOURS OF THE	TIME HOURS OR MILE  1ST OPERATOR PILE, Jimmy, Bob  DISPATCHER'S SIGNATURE  2ND OPERATOR  DISPATCHEB'S SIGNATURE  OUT 0730 START  TOTAL  1N STOP  OUT TOTAL  OUT START  TOTAL  TOTAL  1ST OPERATOR  WORK PERFORMED 2ND OPERATOR  FUELS  LUBES  OIL CHANGE  DIESEL GAS OE GO GREASE HOUR/MILE HOUR/MILE COMPLETED	TIME HOURS OR MILES  1ST OPERATOR PILE, Jimmy, Bob  OUT 0730 START  TOTAL  2ND OPERATOR IN STOP  OUT TOTAL  2ND OPERATOR OUT START  TOTAL  TOTAL  1ST OPERATOR  WORK PERFORMED 2ND OPERATOR  FUELS  LUBES OIL CHANGE LUBRI OUE COMPLETED  OUE  OUT START  TOTAL  TOTAL  HOUR/MILE  HOUR/MILE  DUE	TIME HOURS OR MILES  REPORT TO (Location)  1ST OPERATOR PILE, Jimmy, Bob  OUT 0730 START  TOTAL  2ND OPERATOR  IN STOP  DISPATCHEBUS SIGNATURE  OUT START  TOTAL  1ST OPERATOR  WORK PERFORMED  IN STOP  OUT OTAL  TOTAL  TOTAL  1ST OPERATOR  PULS  LUBES  OIL CHANGE  LUBRICATION  DIESEL GAS (GAL) (GAL) (GTS) (GTS) (GTS)  OUT OTAL  TOTAL  HOUR/MILE HOUR/MILE HOUR/MILE HOUR/MILE COMPLETER  OUT START  TOTAL  TOTAL  HOUR/MILE HOUR/MILE HOUR/MILE HOUR/MILE COMPLETER  OUT START  TOTAL  TOTAL  LUBRICATION  DIESEL GAS (GAL) (GAL) (GTS) (GTS) (GTS)	TIME HOURS OR MILES REPORT TO (Location)  IST OPERATOR PILE, Jimmy, Bob  DISPATCHER'S SIGNATURE  IN STOP  OUT O730 START  TOTAL  2ND OPERATOR  IN STOP  OUT START  TOTAL  IST OPERATOR  WORK PERFORMED 2ND OPERATOR  FUELS LUBES OIL CHANGE LUBRICATION  DIESEL GAS OE GO GREASE (LBS) OUE COMPLETED DUE COMPLETED TYPE PM DUE  ARKS  1ST OPERATOR  2ND OPERATOR	TIME HOURS OR MILES REPORT TO (Location)  PILE, Jimmy, Bob  DISPATCHER'S SIGNATURE  TOTAL  2ND OPERATOR  HN STOP  DISPATCHEB'S SIGNATURE  TOTAL  TOTA





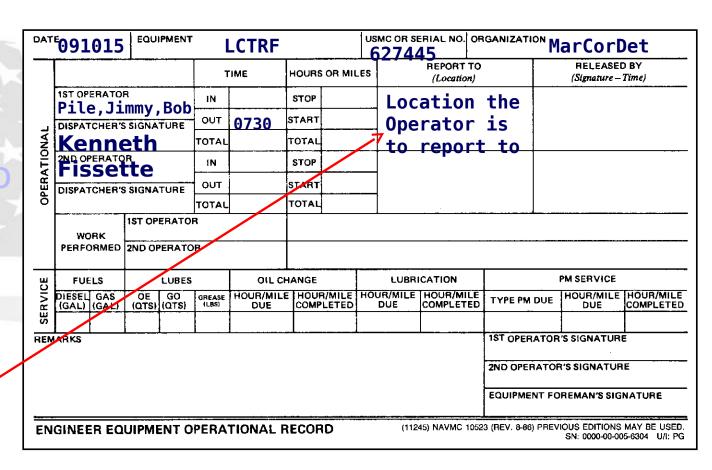
- Date
- Equipment
- Serial #
- Organization
- 1stOperator
- Time Out
- Disp. Sign

DAT	091015	EQUIPMENT	ı	CTRF		08MC OR	SERIAL NO. 0	PRGANIZATION N	larCorDet
			Т	IME	HOURS OR M	ILES	REPORT To (Location)	· I	HELEASED BY (Signature – Time)
	1ST OPERATOR Pile, Ji		IN		STOP				
اب	DISPATCHER'S		OUT	0730	START				
NO A	Kenne		TOTAL		TOTAL				
ATION	FISSET	te	1N		STOP				
OPER.	DISPATCHER'S	SIGNATURE	OUT		START				
<b>/</b> º			TOTAL		TOTAL				
	WORK	1ST OPERATO	٠						
	PERFORMED	2ND OPERATO	R						
CE	FUELS	LUBES		OIL CI	HANGE	LUB	RICATION		PM SERVICE
٦٧	DIESEL GAS (GAL) (GAL)	OE GO (QTS) (QTS)	GREASE (LBS)	HOUR/MILE	HOUR/MILI		E HOUR/MILI		HOUR/MILE HOUR/MIL DUE COMPLETE
SE									
REM	ARKS							1ST OPERATOR	R'S SIGNATURE
								2ND OPERATO	R'S SIGNATURE
								EQUIPMENT FO	OREMAN'S SIGNATURE
EN	GINEER EQI	JIPMENT O	PERA	TIONAL F	RECORD	(1	1245) NAVMC 10	523 (REV. 8-86) PRE	VIOUS EDITIONS MAY BE USEI SN: 0000-00-005-6304 U/I: P





- Date
- Equipmen
- Serial #
- Organization
- 1stOperator
- Time Out
- Disp. Sign
- Report To







- Date
- Equipment
- Serial #
- Organization
- 1st
  - Operator
- Time Out
- Disp. Sign
- Report To

DATI	<b>6</b> 091	015	EQUII	PMENT	ı	CRTF		US	MC OR SE	FRIAL NO. OF	RGANIZATI	ON M	arCorD	et
					т	IME	HOURS OR M			REPORT TO (Location)			HELEASEC (Signature –	
		ERATOR E, Ji	-	Roh	IN		STOP		Loc	ation	the			
		CHER'S			OUT	0730	START		0pe	rator	is			
N/A	Ke	nne	eth		TOTAL		TOTAL		1 -	report				
OPERATIONAL	2ND OF	Set	te		1N		STOP							
PER,		CHER'S		TURE	OUT		START							
ō					TOTAL		TOTAL							
	wo	RK	1ST OPE	ERATO	₹									
	PERFO	DAMED	2ND OP	ERATO	R					•				
Ή	FUE	LS		LUBES		OIL CI	HANGE		LUBRI	CATION		ı	PM SERVICE	
œ l	DIESEL (GAL)		OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MILI	HOUR/MIL COMPLETE		UR/MILE DUE	HOUR/MILE COMPLETED	ТҮРЕ РМ	DUE	HOUR/MILE DUE	HOUR/MIL
SE					7	500	245		500	245	500		500	245
REM	ARKS				•						1ST OPER	ATOR	'S SIGNATURI	
			/								2ND OPER	ATOP	R'S SIGNATUR	E
											EQUIPME	NT FO	REMAN'S SIG	NATURE
EN	GINEE	R EQI	JIPME	NT O	PERA	TIONAL F	RECORD		(112-	45) NAVMC 105	23 (REV. 8-86)	PREV	IOUS EDITIONS SN: 0000-00-00	

Ora PMCS





# 10 min break





### Operator Responsibilities





- Complete blocks pertaining to operation and maintenance of the equipment.
- Complete blocks pertaining to daily PMCS
  - Operator will treat and conduct 8 or 10 hour PMCS, recommended by the manufacture in the appropriate TM, as <u>daily PMCS</u>.
- Forward the completed NAVMC 10523 to the dispatcher.





### Before Operations





Hours/Mile \

S

Hr Meter

A11	091	015	EQU	IPMENT		CRTF			JSMC OR SE 62744	<del></del>	· · · · · · · · · · · · · · · · · · ·	MarCor	
				\	7	IME	HOURS	OR MILES		REPORT TO (Location)		RELEASEI (Signature –	:
	1ST OP		-	Bob	IN		STOP		Loc	ation	the		
_	DISPAT				OUT	0730	START	423	」 0pe	rator	is		
Ž	Ke	nne	eth		TOTAL		TOTAL			report	1		
OPERALIONA	FIS	Set	rte		IN		STOP			- opon			
ᆵ			SIGNA	TURE	оит		START						
5					TOTAL		TOTAL						
	wo	RK	1ST OP	ERATO	R								
	PERFO	RMED	2ND OF	PERATO	R								·
ų	FUE	LS		LUBES		OIL C	HANGE		LUBRI	ICATION		PM SERVICE	
	DIESEL (GAL)		OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MILI		R/MILE H	DUR/MILE DUE	HOUR/MILE COMPLETED	TYPE PM DU	HOUR/MILE DUE	HOUR/MIL
, C						500	2	45	500	245	500	500	245
EM.	ARKS										1ST OPERATO	R'S SIGNATUR	E
											2ND OPERAT	OR'S SIGNATUR	t <b>E</b>
											EQUIPMENT I	OREMAN'S SIG	NATURE
							RECOR				<u> </u>	EVIOUS EDITIONS	





- Legend
  - Actions to be taken
- Operation
  - when to do it
  - Before, During, After
- Item #
  - What is being checked, serviced, etc.
- Remarks
  - List of discrepancies

٠			OPERATION			1
	COVERAGE	accoar.	DURING	1070	B HOUR	10 HOUR
,	DAMAGE, PILFERAGE, LOSS	С		С		<del> </del>
2	LEAKS, GENERAL			c		···
3	FUEL, OIL, WATER	v		Š		+
4	ENGINE WARMUP	c				
5	INSTRUMENTS	c	С			· -
6	SAFETY DEVICES	c				
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			
0	STEERING	c	С	,	Ī	
1	ENGINE OPERATION		С			
2	UNUSUAL NOISES	C	С			
.3	LIGHTS AND REFLECTORS	C				
4	AIR TANKS	\$		S		
5	DAIYE BELTS	С	L	C	L	
6	BATTERY ELEC. LEVEL	С		\$	<u></u>	L l _
7	ANTIFREEZE TEST TO* F	٧				<u> </u>
B	SERVICE BRAKES	٧	C			
9	"RANSMISSION	C	C		<u> </u>	ļ
20	AJR FILTER	٧				ļ <u>-</u>
11	FUEL FILTERS	S		5		
22	TIRES/TRACK	C	<u> </u>	c	<u> </u>	<b></b>
23						<del>                                     </del>
24					<u> </u>	<del> </del>
5					<u> </u>	↓





 Check - The act of inspecting or testing, as for accuracy or quality

2			OPERATION			
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
1	DAMAGE, PILFERAGE, LOSS	С		c		·
2	LEAKS, GENERAL	С		c		
1	FUEL, OIL, WATER	ν		\$		
Ť	ENGINE WARMUP	c				
Ť	INSTRUMENTS	c	С			
1	SAFETY DEVICES	С				
t	TOOLS AND EQUIPMENT	¢				
1	PUBLICATIONS	A				
t	CLUTCH	٧	C			
,†	STEERING	c	C	•		
ij	ENGINE OPERATION		С			
2	UNUSUAL NOISES	C	С			
3	LIGHTS AND REFLECTORS	C				
•	AIR TANKS	\$		S		
Ì	DAIYE BELTS	С		C		
Ì	BATTERY ELEC. LEVEL	С		5		
Ī	ANTIFREEZE TEST TO * F	٧				
1	SERVICE BRAKES	٧	C		ĺ	
•	"RANSMISSION	C	C			
,	AIR FILTER	٧		2		
ij	FUEL FILTERS	s		s		
: [	TIRES/TRACK	C		c		
3						
4						
5			<u> </u>			





 Service - To make fit for use; adjust, repair, or maintain

	40150145		OPERATION		s House	10 HOUR
	COVERAGE	BEFORE	DURING	AFTER	E HOUR	
3	DAMAGE, PILFERAGE, LOSS	С		С		
2	LEAKS, GENERAL	С		С		
3	FUEL, OIL, WATER	V		\$		
•	ENGINE WARMUP	C				
5	INSTRUMENTS	С	С			
6	SAFETY DEVICES	C				
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			
0	STEERING	c	C			
1	ENGINE OPERATION		С			<u> </u>
2	UNUSUAL NOISES	C	С			
3	LIGHTS AND REFLECTORS	C				
4	AIR TANKS	\$		S		
5	DAINE BELTS	С		C		
6	BATTERY ELEC. LEVEL	С		5		
7	ANTIFREEZE TEST TO* F	٧				
B	SERVICE BRAKES	٧	C			L
9	TRANSMISSION	C	C			
0	AIR FILTER	٧		2		<u> </u>
1	FUEL FILTERS	\$		S		
z	TIRES/TRACK	С		c		
23						<u></u>
4						
5			1			





 Verify - to establish the truth, accuracy, or reality of

ᢓ	· · ·		OPERATION			
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
1	DAMAGE, PILFERAGE, LOSS	С		С		
2	LEAKS, GENERAL	С		c		
3	FUEL, OIL, WATER	V		Š		
4	ENGINE WARMUP	c				
5	INSTRUMENTS	c	С			
6	SAFETY DEVICES	С				
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			
0	STEERING	¢	C			
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	C				
14	AIR TANKS	\$		S		
5	DAIYE BELTS	С	L	C		
6	BATTERY ELEC. LEVEL	С		\$		<b>└</b>
7	ANTIFREEZE TEST TO * F	٧				<u> </u>
18	SERVICE BRAKES	٧	C			ļ
19	"RANSMISSION	G	C			ļ
20	AIR FILTER	٧		3		ļ
21	FUEL FILTERS	\$		S		<u> </u>
22	TIRES/TRACK	С		С		<b> </b>
23						<u> </u>
24						<del> </del>
1. 2. 3.	OTES  Add other coverages and proc 8 and 10 hour scheduled PM' 11 repairs are required, notify MARKS	a are consu	tered as dail	he appropri	ste technica ces	l manual.





 Not applicable – not capable of or suitable for being applied

DAILY "A" PM SERVICE									
<u>.</u>	COVERAGE		OPERATION						
MELL		BEFORE	DURING	AFTER	s Hous	10 HOUR			
3	DAMAGE, PILFERAGE, LOSS	С		С		<b>—</b>			
2	LEAKS, GENERAL	С		С		† <del></del>			
3	FUEL, OIL, WATER	ν		S		1			
4	ENGINE WARMUP	c							
5	INSTRUMENTS	С	С			1			
6	SAFETY DEVICES	c	<u> </u>						
7	TOOLS AND EQUIPMENT	c				1			
В	PUBLICATIONS	٧							
9	CLUTCH	٧	C			1			
10	STEERING	c	С		-	1			
11	ENGINE OPERATION		С						
12	UNUSUAL NOISES	C	С			·			
13	LIGHTS AND REFLECTORS	c							
14	AIR TANKS	\$		s		1 1			
15	DAIVE BELTS	С		C			_		
16	BATTERY ELEC. LEVEL	c		\$					
17	ANTIFREEZE TEST TO * F	٧			_				
18	SERVICE BRAKES	٧	C			†			
19	"RANSMISSION	C	С			T			
20	AIR FILTER	٧		3		<b></b>			
21	FUEL FILTERS	s		s					
22	TIRES/TRACK	c		c		<del>                                     </del>			
23						<del>                                     </del>			
24						<del>                                     </del>			
25			<b>├</b>			<del>                                     </del>			
1 2 3	OTES Add other coverages and pro- 8 and 10 hour scheduled PM' 11 repairs are required, notify MARKS	a are consu	tered as dail	he appropri y PM servi	ate technica ces	t manuat			





 Adjustment / Repair required – in need of / 2nd echelon or higher maintenance

BEFORE DURING AFTER  DAMAGE, PILFERAGE, LOSS C C C  LEAKS, GENERAL C C C  FUEL, OIL, WATER V S  FUEL, OIL, WATER V S  INSTRUMENTS C C C  SAFETY DEVICES C C  TOOLS AND EQUIPMENT C C  B PUBLICATIONS V C  STEERING C C C  STEERING C C C  LIGHTS AND REFLECTORS C C  LIGHTS AND REFLECTORS C C  JUNUSUAL NOISES C C C  A AIR TANKS S S S  BATTERY ELEC. LEVEL C S  B SERVICE BRAKES V C C  TANTEREEZE TEST TO F V S  SERVICE BRAKES V C C  TANTEREEZE TEST TO S S  TRANSMISSION C C C  JUNUSUAL NOISES C C C C C C C C C C C C C C C C C C	DAMAGE, PILFERAGE, LOSS C C C  LEARS, GENERAL C C C  FUEL, OIL, WATER V S  ENGINE WAMPP C  INSTRUMENTS C C  SAFETY DEVICES C  TOOLS AND EQUIPMENT C  PUBLICATIONS V C  STEERING C C  ENGINE OPERATION C  LINUSUAL NOISES C C  AIR TANKS S S  BATTERY ELEC. LEVEL C S  ANTIFREEZE TEST TO F V  SERVICE BRAKES V C  TRANSMISSION C C  TARSMISSION C C  TRANSMISSION	DAMAGE, PILFERAGE, LOSS C C C  LEARS, GENERAL C C C  FUEL, OIL, WATER V S  LEARING WATER V S  INSTRUMENTS C C  SAFETY DEVICES C  TOOLS AND EQUIPMENT C  B PUBLICATIONS V C  SIEERING C C  LIGHTS AND REFLECTORS C  LIGHTS AND REFLECTORS C  A AIR TANKS S S  BATTERY ELEC. LEVEL C S  BATTERY ELEC. LEVEL C S  TANISHISSION C C  TRANSMISSION C C  AIR FILTER V S  TRANSMISSION C C  TREST/TRACK C C  TRANSMISSION C C  TRANS	į			OPERATION			
LEAKS, GENERAL C C C  3 FUEL, OIL, WATER V S  4 ENGINE WARMUP C  5 INSTRUMENTS C C  5 SAFETY DEVICES C  7 YOOLS AND EQUIPMENT C  8 PUBLICATIONS V  9 CLUTCH V C  0 STEERING C C  1 ENGINE OPERATION C  1 LIGHTS AND REFLECTORS C  4 AIR TANKS S  5 DRIVE BELTS C C  8 BATTERY ELEC. LEVEL C  7 ANTIFREEZE TEST TO F V  8 SERVICE BRAKES V C  AIR TANKSISION C C  AIR FILTER V S  1 FUEL FILTERS S  5 TIRES/TRACK C C  3 TIRES/TRACK C C  3 TIRES/TRACK C C  5 TIRES/TRACK C C  5 TIRES/TRACK C C  5 TIRES/TRACK C C  6 Add other coverages and procedures designated by the appropriate technical manual.	LEAKS, GENERAL C C C  FUEL, OIL, WATER V S  ENGINE WAAMUP C  INSTRUMENTS C C  SAFETY DEVICES C  TOOLS AND EQUIPMENT C  PUBLICATIONS V  CLUTCH V C  STEERING C C  ENGINE OPERATION C  LIGHTS AND REFLECTORS C  AIR TANKS S S  BATTERY ELEC. LEVEL C S  ANTIFREEZE TEST TO F V  SERVICE BRAKES V C  TANKSMISSION C C  AIR FILTER V S  FUEL FILTERS S S  TIRES/TRACK C C  LIGHTS AND COVERAGES AND PROPROGRAMS  VOTES  LAdd other coverages and procedures designated by the appropriate technical manual.  2 B and 10 hour scheduled PMs are considered as daily PM services  11 repairs are required, notify the equipment chief.	LEARS, GENERAL C C C  FUEL, OIL, WATER V S  LENGINE WARMUP C  LINGINE WARMUP C C  STAFETY DEVICES C C  TOOLS AND EQUIPMENT C C  STEERING C C C  STEERING C C C  ENGINE OPERATION C C  LINUSUAL NOISES C C  AIR TANKS S S S  DRIVE BELTS C C C  STEVEL C C C S  AIR TANKS S S S  DRIVE BELTS C C C  AIR TANKS S S S  SAFTY LEC. LEVEL C S S  ANTIFREEZE TEST TO F V  SERVICE BRAKES V C C  TRANSMISSION C C C C  TRANSMISSION C C C C C C C C C C C C C C C C C C C		COVERVAGE	BEFORE	DURING	AFTER	B HOUR	10 11001
TUEL, OIL, WATER  I ENGINE WARMUP  S INSTRUMENTS  C C  S SAFETY DEVICES  C C  TOOLS AND EQUIPMENT  C C  STEERING  C C  LIGHTS AND REFLECTORS  LIGHTS AND REFLECTORS  LIGHTS AND REFLECTORS  DRIVE BELTS  C C  ANTIEREZE TEST TO F  S SERVICE BRAXES  TRANSISSION  C C  C C  ARTIEVE BLOCK  S SAFETY DEVILED  FUEL FILTERS  S S  S S  S S  S S  S S  S S  S S	FUEL, OIL, WATER  FUEL, OIL, WATER  ENGINE WARMUP  C  INSTRUMENTS  C  C  SAFETY DEVICES  C  TOOLS AND EQUIPMENT  C  PUBLICATIONS  V  C   STEERING  C  ENGINE OPERATION  C  UNUSUAL NOISES  C  C  UNUSUAL NOISES  C  C  AIR TANKS  S  S  S  S  S  AIR FILTER  V  C  S  TRANSMISSION  C  C  C  TOOLS PRACES  C  C  C  C  C  C  C  C  C  C  C  C  C	TUEL, OIL, WATER  FUEL, OIL, WATER  FIGURE WARMUP  SINSTRUMENTS  C  G  SAFETY DEVICES  C  TOOLS AND EQUIPMENT  C  PUBLICATIONS  PUBLICATIONS  C  C  STEERING  C  C  UNUSUAL NOISES  C  UNUSUAL NOISES  C  DATIFY BELTS  DATIFY ELEC. LEVEL  C  S  ANTERRETE TEST TO  F  S  SERVICE BRAKES  C  C  ANTERRETE TEST TO  S  TRANSMISSION  C  ANTERRETE TEST TO  TRANSMISSION  C  C  C  C  C  C  C  S  TRANSMISSION  C  C  C  C  C  C  C  C  C  C  C  C  C	7	DAMAGE, PILFERAGE, LOSS	c		С		
A ENGINE WARMUP C SI INSTRUMENTS C C SAFETY DEVICES C TOOLS AND EQUIPMENT C B PUBLICATIONS V CLUTCH V C STEERING C C ILIUNUSUAL MOISES C C ILIUNUSUAL MOISES C C JAIRTS AND REFLECTORS C AIR TANKS S S DAINE BELTS C C S ANTERVELEC. LEVEL C S ANTERVELEC. LEVEL C S SERVICE BRAXES V C SAFVICE BRAXES V C SAFVICE BRAXES V C SAFVICE BRAXES V C SAFVICE BRAXES C C C C SAFVICE BRAXES C C C C C C C C C C C C C C C C C C C	ENGINE WARMUP  INSTRUMENTS  C  SAFETY DEVICES  C  TOOLS AND EQUIPMENT  C  PUBLICATIONS  V  CLUTCH  V  C  STEERING  C  C  ENGINE OPERATION  C  UNUSUAL NOISES  C  C  LIGHTS AND REFLECTORS  C  AIR TAMKS  S  S  BATTERY ELEC. LEVEL  ATTEREEZE TEST TO F  SERVICE BRAKES  V  C  TRANSMISSION  C  AIR FILTER  V  S  TRANSMISSION  C  C  C  C  C  C  C  C  C  C  C  C  C	I ENGINE WARMUP C  INSTRUMENTS C C  SAFETY DEVICES C  TOOLS AND EQUIPMENT C  PUBLICATIONS V  CLUTCH V C  STEERING C C  UNUSUAL NOISES C C  LIGHTS AND REPLECTORS C  LIGHTS AND REPLECTORS C  ANTERVELEC. LEVEL C S  BATTERY ELEC. LEVEL C S  SERVICE BRAKES V C  TANTIFREEZE TEST TO F V  SERVICE BRAKES V C  ARE FILTER V S  TRANSMISSION C C  ARE FILTER V S  TRANSMISSION C C  ARE FILTER V S  TREST/TRACK C C  NOTES  NOTES  1. Add other coverages and procedures designated by the appropriate technical manual.  2. Band 10 hour acheduled PM's are considered as doily PM services  1. If repairs are required, notify the equipment chief.	2	LEAKS, GENERAL	С		c		
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	(EMAKR)	remarks	<b>u</b> .		the equip	пель сли,			
			_	MAKKS					
REMARKS									





- Adjustment / Repair required – in need of 2<sup>nd</sup> echelon or higher maintenance
  - Detailed description
    - Item #
    - What
    - Where

C	— Adjust S — Se — Check V — Ve — Lubricate / — No		O	— Adjus — Defec		epair Required
ž	- Lubricate / - 14		OPERATION			
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
3	DAMAGE, PILFERAGE, LOSS	С		С		
2	LEAKS, GENERAL	С		c		
3	FUEL, OIL, WATER	٧		Š		
4	ENGINE WARMUP	c				
5	INSTRUMENTS	С	С			
6	SAFETY DEVICES	С				
7	TOOLS AND EQUIPMENT	u				
В	PUBLICATIONS	٧				I
9	CLUTCH	٧	C			<u> </u>
10	STEERING	u	C			
1	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	C				
14	AIR TANKS	\$		s		
5	DAIYE BELTS	С		C		
16	BATTERY ELEC. LEVEL	С		\$		L
17	ANTIFREEZE TEST TO* F	٧				
B	SERVICE BRAKES	٧	C			
19	TRANSMISSION	Ç	C			L
20	AJR FILTER	٧		5		l
21	FUEL FILTERS	S		s		
22	TIRES/THACK	c		C		L
23						
24						<u> </u>
25						ļ Ļ
1. 2. 3.	OTES Add other coverages and proc 8 and 10 hour scheduled PM* If repairs are required, notify MARKS	a are consi	dered an da:	he appropriu y PM servi	ste lechnica ces	t manual





 Defect Corrected fixed before the closing of the 10523

			"A" PM S nd for ma				
C.	— Adjust S — Se — Check V — Vo — Lubricate / — No		<b>-&gt;</b> 0		stment/R t Correct	epair Requir ed	ed
¥	COVERAGE		OPERATION		E HOUR	10 HOUR	
	WIENNIE	BEFORE	DURING	AFTER	2.,,22		
3	DAMAGE, PILFERAGE, LOSS	С		С			
2	LEAKS, GENERAL	С		c			
3	FUEL, OIL, WATER	ν		\$		i	
4	ENGINE WARMUP	c					
5	INSTRUMENTS	¢	C				
6	SAFETY DEVICES	C				ļ	
7	TOOLS AND EQUIPMENT	¢					
В	PUBLICATIONS	٧				ļ <u>.</u>	
9	CLUTCH	٧	C		L		
10	STEERING	c	C			·	
11	ENGINE OPERATION		c			<u> </u>	
12	UNUSUAL NOISES	C	С				
13	LIGHTS AND REFLECTORS	C					
14	AIR TANKS	\$		s			
5	DAIYE BELTS	С		C			
16	BATTERY ELEC. LEVEL	С		5		L	
7	ANTIFREEZE TEST TO* F	٧				<u> </u>	
B	SERVICE BRAKES	٧	C			<u> </u>	
19	"RANSMISSION	C	C				
20	AIR FILTER	٧		2			
21	FUEL FILTERS	s		s			
22	TIRES/TRACK	c		c			
23							
24							
25							
1. 2. 3.	ITES Add other coverages and proc 8 and 10 hour scheduled PM' 11 repairs are required, notify MARKS	are consu	dered an da:	he appropri y PM servi	ate technica ces	l manual.	





- Legend
  - What to do
- Operation
  - When to do it
  - Before, During, After
- Item #
  - What is being checked, serviced, etc.
- Remarks
  - List of discrepancies

A	— Adjust S — Se	Legend for marking  rvice X — Adjustment/Repair Require							
C	— Check V — V								
<u>.</u>	-> (		OPERATION						
	OOVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOTR .			
1	DAMAGE, PILFERAGE, LUSS	c							
2	LEAKS, GENERAL	С		С		† · · · · ·			
3	FUEL, OIL, WATER	V		\$		† <del></del>			
4	ENGINE WARMUP	c							
5	INSTRUMENTS	c	C		•				
6	SAFETY DEVICES	C				ļ			
7	TOOLS AND EQUIPMENT	¢							
В	PUBLICATIONS	٧							
9	CLUTCH	٧	C						
10	STEERING	c	C						
11	ENGINE OPERATION		С						
12	UNUSUAL NOISES	C	С						
13	LIGHTS AND REFLECTORS	C							
14	AIR TANKS	\$		S					
is	DAIYE BELTS	С		C					
16	BATTERY ELEC. LEVEL	С		\$					
17	ANTIFREEZE TEST TO * F	٧							
18	SERVICE BRAKES	٧	C			L			
19	TRANSMISSION	C	C						
20	AIR FILTER	٧		5					
21	FUEL FILTERS	\$		S					
22	TIRES/TRACK	c		c		L			
23						<u></u>			
24							,		
25						ļ			
3.	Add other coverages and proc 8 and 10 hour scheduled PM' If repairs are required, notify MARKS	a are consu	dered as dail	he appropri y PM servi	ate iechnica ces	I manual.			





- Legend
  - what to do
- Operation
  - when to do it
  - Before, During, After
- Item #
  - What is being checked, serviced, etc.
- Remarks
  - List of discrepancies





- Legend
  - what to do
- Operation
  - when to do it
  - Before, During, After
- Item #
  - What is being checked, serviced, etc.
- Remarks
  - List of discrepancies

Ī			OPERATION	·		
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
Ť	DAMAGE, PILFERAGE, LOSS	С		С		
T	LEAKS, GENERAL	С		c		
T	FUEL, OIL, WATER	ν	T	\$		
t	ENGINE WARMUP	c				
1	INSTRUMENTS	С	C			
t	SAFETY DEVICES	C	T			
t	TOOLS AND EQUIPMENT	c	T			
_	PUBLICATIONS	٧				·•
t	CLUTCH	٧	C			· · · · · · · · · · · · · · · · · · ·
t	STEERING	С	C			,
t	ENGINE OPERATION		С			1
t	UNUSUAL NOISES	C	С			<del>                                     </del>
t	LIGHTS AND REFLECTORS	С	<u> </u>			
t	AIR TANKS	s	<del>                                     </del>	\$		† † †
t	DAIVE BELTS	c		C		<del>  </del>
ŀ	BATTERY ELEC. LEVEL		<del> </del>	5		<del>                                     </del>
1	ANTIFREEZE TEST TO * F	v		<del></del>	-	<del>                                     </del>
+	SERVICE BRAKES	· v	c	<del> </del>		<del> </del>
+	"RANSMISSION	G -	c			<del> </del>
+	AIR FILTER	- V	<del>                                     </del>	s		<del>  </del>
+	FUEL FILTERS	5	<del> </del>	s		<del> </del>
ŀ				- 6		<del> </del>
-	TIRES/TRACK		<del> </del>	<del></del>	<del> </del>	<del> </del>
L				<del> </del>		<del> </del>
-			<u> </u>		<del> </del>	<del> </del>
L		L			ļ	<b>4</b>
	Add other coverages and proc 8 and 10 consumed PM 17 repairs are required, notify	a are const	dered an dai	he appropri y PM servi	ate technica	t manuat.





- Before checks
  - Completed before leaving motor pool
- Example

<b>₽</b>			OPERATION			1
	COVERAGE	BEFORE	DURING	AFTER	B HOU®	10 HOUR
3	DAMAGE, PILFERAGE, LOSS	С		С		
2	LEAKS, GENERAL	С		c		
3	FUEL, OIL, WATER	V		Š		
4	ENGINE WARMUP	c				
5	INSTRUMENTS	¢	С			
6	SAFETY DEVICES	C				
7	TOOLS AND EQUIPMENT	¢				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			
10	STEERING	c	C			
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	C				
14	AIR TANKS	\$		S		
15	DAIYE BELTS	С		C		
16	BATTERY ELEC. LEVEL	С		5		L
17	ANTIFREEZE TEST TO F	٧				<u></u>
18	SERVICE BRAKES	٧	C			L
19	TRANSMISSION	C	C			L
20	AIR FILTER	٧		5		<u> </u>
21	FUEL FILTERS	\$		s		
22	TIRES/TRACK	c		С		<u> </u>
23						<u></u>
24						
25			1			





- Before checks
  - Completed before leaving motor pool
- Example
  - Item 1

오			OPERATION			
2	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
3	DAMAGE, PILFERAGE, LOSS	С		С		
2	LEAKS, GENERAL	С		c		
3	FUEL, OIL, WATER	V		S		<u> </u>
4	ENGINE WARMUP	C				
5	INSTRUMENTS	¢	C			· -
6	SAFETY DEVICES	C				1
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				<b>-</b>
9	CLUTCH	٧	C			1
10	STEERING	c	C	1		
11	ENGINE OPERATION		С			1
12	UNUSUAL NOISES	C	С			<del>                                     </del>
13	LIGHTS AND REFLECTORS	c				
14	AIR TANKS	\$		S		1
15	DAIYE BELTS	С		C		
16	BATTERY ELEC. LEVEL	c		\$		
17	ANTIFREEZE TEST TO F	٧				
18	SERVICE BRAKES	٧	C			
19	TRANSMISSION	C	С			<b> </b>
20	AJR FILTER	V	t	3		<u> </u>
21	FUEL FILTERS	5		s		
22	TIRES/TRACK			С		
23						l
24						<del> </del>
25			<u> </u>	1		<u> </u>





- Before checks
  - Completed before leaving motor pool
- Example
  - Item 1
  - Before Operation

₽	40150145		OPERATION		s Hous	10 HOUR	
	COVERAGE	BEFORE	DURING	AFTER	B MUUX	10 HOOK	
3	DAMAGE, PILFERAGE, LOSS	С		С			
2	LEAKS, GENERAL	С		c			
3	FUEL, OIL, WATER	ν		\$		<u> </u>	
4	ENGINE WARMUP	c					
5	INSTRUMENTS	¢	С				
6	SAFETY DEVICES	С					
7		¢					
6	PUBLICATIONS	٧					
9	CLUTCH	٧	C				
10	STEERING	С	C			1	
11	ENGINE OPERATION		С			<b></b>	
12	UNUSUAL NOISES	C	С			<u> </u>	
13	LIGHTS AND REFLECTORS	C					
14	AIR TANKS	\$		S			
15	DAIVE BELTS	С	<u> </u>	C			
16	BATYERY ELEC. LEVEL	С		\$		<b>↓</b> ↓	
17	ANTIFREEZE TEST TO* F	٧				<b> </b>	
18	SERVICE BRAKES	٧	C				
19	TRANSMISSION	C	C			ļ	
20	AIR FILTER	٧	L			ļ	
21	FUEL FILTERS	S		S			
22	TIRES/TRACK	c	<u> </u>	c		<b> </b>	
23						L	
24							
25						ļ <b>.</b>	
2 3	OTES . Add other coverages and proc. 8 and 10 hour scheduled PM'. If repairs are required, notify	are consu	dered as dail	he appropri y PM servi	ste technica ces	l manual.	





- Before checks
  - Completed before leaving motor pool
- Example
  - Item 1
  - Before Operation
  - Check

COVERAGE  AMAGE, PILFERAGE, LOSS EAKS, GENERAL	BEFORE C	DURING	AFTER	B HOUR	10 HOUR
	_ c			B HOUR	10 HOUR
ANG GENERAL			С		<del>                                     </del>
	<b>7</b> c		c		·
JEL, OIL, WATER	٧		S		ļ
NGINE WARMER	c				
STRUMENTS	c	С			1
FETY DEVICES	C				1
OOLS AND EQUIPMENT	c				
UBLICATIONS	٧				
LUTCH	٧	C			
TEERING	c	C	i i		
NGINE OPERATION		С			
NUSUAL NOISES	C	С			
GHTS AND REFLECTORS	C				
IR TANKS	\$		s		
AIVE BELTS	С		C		
ATTERY ELEC. LEVEL	С		5		
NTIFREEZE TEST TO* F	٧				
ERVICE BRAKES	٧	C			
RANSMISSION	Ç	C			
IR FILTER	٧		3		l
UEL FILTERS	S		s		
IRES/TRACK	c		С		<u> </u>
					<u> </u>
	NSTRUMENTS  FETY DEVICES  DOLS AND EQUIPMENT  UBLICATIONS  LUTCH  TEERING  NOINE OPERATION  NUSUAL NOISES  IGHTS AND REFLECTORS  IR TANKS  RIVE BELTS  ATTERY ELEC. LEVEL  NIFFREEZE TEST TO	NSTRUMENTS C  AFETY DEVICES C  DOLS AND EQUIPMENT C  UBLICATIONS V  LUTCH V  TEERING C  NGINE OPERATION  NUSUAL MOISES C  IGHTS AND REFLECTORS C  IR TANKS S  RIVE BELIS C  ATTERY ELEC. LEVEL C  NTIFREEZE TEST TO F  ERVICE BRAKES V  RARAMISSION C  DIR FILTER V  UEL FILTER S	NSTRUMENTS C C  SETY DEVICES C  ODLS AND EQUIPMENT C  UBLICATIONS Y  LUTCH Y C  RETERING C C  GRIB OPERATION C  NUSUAL NOISES C C  IGHTS AND REFLECTORS C  IR TANKS S  RIVE BELTS C  ATTERY ELEC. LEVEL C  RANKINGSION C C  RERILIER Y  UEL FILTER S	NSTRUMENTS C C  SETY DEVICES C  ODLS AND EQUIPMENT C  UBLICATIONS V  LUTCH V C  TEERING C C  NGINE OPERATION C  NUSUAL MOISES C C  IGHTS AND REFLECTORS C  IGHTS AND REFLECTORS C  C  ATTERY LEC. LEVEL C S  NIVE BELTS C C C  ATTERY LEC. LEVEL C S  NIFTEREEZE TEST TO F V  ERVICE BRAKES V C  RANKSMISSION C C  OR FILTER V S  S  S	NSTRUMENTS C C  OFFTY DEVICES  C DOLS AND EQUIPMENT C  UBLICATIONS V  LUTCH V C  TEERING C C  GOING OPERATION C  NUSUAL NOISES C C  GOTTS AND REFLECTORS C  IR TANKS S S  RIVE BELTS C C  ATTERY ELEC. LEVEL C S  NIFTEREEZE TEST TO * F  ERVICE BRAKES V C  RANKSHISSION C C  OR FILTER V S  OR FILTER V S  S  S  LETTERY S





- Before checks
  - Completed before leaving motor pool
- Example
  - Item 1
  - Before Operation
  - Check
  - Damage, Pilferage, or Loss

ş.		OPERATION				
	COVERAGE	BEFORE	DURING	AFTER	8 HOUR	10 HOUR
<del>-</del>	DAMAGE, PILFERAGE, LOSS	С		С		<del>                                     </del>
2	LEAKS, GENERAL	c		c		<del> </del>
3	FUEL, OIL WATER	- v	<del>                                     </del>	5		<del> </del>
4	ENGINE WARMUP	ē				<del>                                     </del>
5	INSTRUMENTS	c	c			<del>                                     </del>
6	SAFE Y DEVICES	c	<del>                                     </del>			·
7	TOOLS AND EQUIPMENT	¢	<del> </del>			<del>                                     </del>
В	PUBLICATIONS	V				
9	ELUTCH	v	C			· · · · · · · · · · · · · · · · · · ·
10	STEERING	c		<u> </u>		<del></del>
11	ENGINE OPERATION		С		<del>-</del> -	1
12	UNUSUAL NOISES	C	С			<del>                                     </del>
13	LIGHTS AND REFLECTORS	C	<u> </u>			
14	AIR TANKS	\$	<del></del>	s	i	1
15	DAIYE BELTS	С		C		
16	BATTERY ELEC. LEVEL	c		5		<del> </del>
17	ANTIFREEZE TEST TO F	٧				<del>                                     </del>
18	SERVICE BRAKES	٧	C	r		1
19	TRANSMISSION	C	С			T
20	AIR FILTER	٧		3		1
21	FUEL FILTERS	Š		s		
22	TIRES/TRACK	c		С		
23						
24						<del>                                     </del>
25			<u> </u>		<del></del>	tt-





- Found
  - Damage, Pilferage, or Loss

	40150145		OPERATION		s House	10 HOUR
	COVERAGE	BEFORE	DURING	AFTER	S HUGH	10 HOOR
3	DAMAGE, PILFERAGE, LOSS	c		С		
2	LEAKS, GENERAL	С		c		
3	FUEL, OIL, WATER	V		\$		
4	ENGINE WARMUP	c				
5	INSTRUMENTS	С	C			
6	SAFETY DEVICES	C	L			L
7	TOOLS AND EQUIPMENT	¢				
В	PUBLICATIONS	٧				<u> </u>
9	CLUTCH	٧	C			
10	STEERING	c	C			
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	C			
13	LIGHTS AND REFLECTORS	C				
14	AIR TANKS	\$		S		
15	DAINE BELTS	С	L	C		ļ
16	BATTERY ELEC. LEVEL	С		5		<b>↓</b> ↓
17	ANTIFREEZE TEST TO * F	٧				<del> </del>
18	SERVICE BRAKES	٧	C			<u> </u>
19	"RANSMISSION	G	C			L.——
20	AJR FILTER	٧	L	2		ļ <u>.</u>
21	FUEL FILTERS	S		S		
22	TIRES/TRACK	С		c		
23						<u></u>
24						ļ
25				ļ		





- Found
  - Damage, Pilferage, or Loss
    - ADJ / RPR Req.

5		applicable OPERATION			
COVERAGE				8 HOUR	10 HOUR
<b></b>	BEFORE	DURING	AFTER		
) DAMAGE, PILFERAGE, LOSS			С		ļ
2 LEAKS, GENERAL	c		c		ļ.——
3 FUEL, OIL, WATER	· · ·		\$		<b></b>
4 ENGINE WARMUP	c				<b>↓</b>
5 INSTRUMENTS	c	С			ļ
6 SAFETY DEVICES	C	<u> </u>			<del> </del>
7 TOOLS AND EQUIPMENT	C	L			ļ <del>.</del>
B PUBLICATIONS	V	-			ļ
9 CLUTCH	V	C			<del> </del>
10 STEERING	· c				
1 ENGINE OPERATION		C			<del>                                     </del>
12 UNUSUAL NOISES		С			<del>                                     </del>
13 LIGHTS AND REFLECTORS	С				<b>.</b>
14 AIR TANKS	\$	<u> </u>	S		<del>                                     </del>
IS DAIYE BELTS	c		C		<del></del>
16 BATYERY ELEC. LEVEL	С		5		<del>                                     </del>
	F V				-
IB SERVICE BRAKES	٧	C			
PANSMISSION	C	C		<u> </u>	<del> </del>
20 AIR FILTER	V		2		ļ
FUEL FILTERS	_ S		5		
ZZ TIRES/TRACK	С	ļ	С		-
23	_		ļ		
24		L	ļ	ļ	<del> </del>
	M'a are cons	dered as dail	he appropri y PM servi	ate technica	t manual.





- Found
  - Damage, Pilferage, or Loss
    - ADJ / RPR Req.
    - " X " the box

£	COVERAGE		OPERATION		S HOUR	10 HOUR
	COVERAGE	BEFORE	DURING	AFTER	S HOUR	15 1100%
3	DAMAGE, PILFERAGE, LOSS	X		С		
2	LEAKS, GENERAL	С		С		
3	EUCL, OIL, WATER	V		\$		
4	ENGINE WARMUP	C				
5	INSTRUMENTS	c	С			
6	SAFETY DEVICES	C				
7	TOOLS AND EQUIPMENT	¢				
В	PUBLICATIONS	٧				<u> </u>
9	CLUTCH	٧	C		[	<u> </u>
10	STEERING	¢	C			1
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	C			
13	LIGHTS AND REFLECTORS	C				
14	AIR TANKS	\$		s		
15	DAIYE BELTS	c		C		
16	BATTERY ELEC. LEVEL	C		5		L
17	ANTIFREEZE TEST TO* F	٧				<u> </u>
18	SERVICE BRAKES	٧	C			
19	TRANSMISSION	C	C			ļ
20	AIR FILTER	٧		5		ļ <u>.</u>
21	FUEL FILTERS	\$		s		
22	TIRES/TRACK	c	i	c		
23						
24						
25			1			





- Found
  - Damage, Pilferage, or Loss
    - ADJ / RPR Req.
    - " X " the box
    - Detailed description

L	— Lubricate / — No	t applic				<del>' '</del>
	COVERAGE		OPERATION	,	s House	10 HOUR
-		BEFORE	DURING	AFTER		
3 2	DAMAGE, PILFERAGE, LOSS LEAKS, GENERAL	_ <del></del>		c		ļ. <del></del>
3	FUEL, OIL, WATER	- V	<del> </del>	s		<del> </del>
4	ENGINE WARMUP	<del></del>		-		<del> </del>
5	INSTRUMENTS		c			<del>                                     </del>
6	SAFETY DEVICES		<del>                                     </del>	<del> </del>		·
Ť	TOOLS AND EQUIPMENT	<u> </u>	<del> </del>	<u> </u>		<del> </del>
В	PUBLICATIONS	V				<del></del>
9	CLUTCH	v	C	-		† · -···-
0	STEERING	c		<del>                                     </del>		<del>                                     </del>
1	ENGINE OPERATION		С			<u> </u>
2	UNUSUAL NOISES	C	С			<del> </del>
3	LIGHTS AND REFLECTORS	c				<del>                                     </del>
4	AIR TANKS	\$	<del>                                     </del>	S		1
5	DAIYE BELTS	c	<b></b>	C	-	
6	BATTERY ELEC. LEVEL	c		s		
7	ANTIFREEZE TEST TO * F	٧		1		<b>1</b> 1 -
B	SERVICE BRAKES	٧	C			
9	TRANSMISSION	G	C			
0	AJR FILTER	٧	1	2		
1	FUEL FILTERS	s		s		
z	TIRES/TRACK	c	Ī .	c		
3						
4						
5						
3.	Add other coverages and proc 8 and 10 hour scheduled PM'. If repairs are required, notify MARKS 1) Fend front	the equip	dered as dai ment chief.	ly PM servi		<del> </del>





- None Found
  - Damage, Pilferage, or Loss

į			OPERATION	_		
	COVERAGE	BEFORE	DURING	AFTER	s Hous	10 HOUR
1	DAMAGE, PILFERAGE, LOSS	С		С		
2	LEAKS, GENERAL	С		c		
3	FUEL, OIL, WATER	V		S		Ĭ
4	ENGINE WARMUP	C				
5	INSTRUMENTS	С	C			
6	SAFETY DEVICES	C				
7	TOOLS AND EQUIPMENT	¢				
В	PUBLICATIONS	٧				<u> </u>
9	CLUTCH	٧	C			
0	STEERING	¢	C			1
1	ENGINE OPERATION		С			<u> </u>
2	UNUSUAL NOISES	C	C			
.3	LIGHTS AND REFLECTORS	С				
4	AIR TANKS	\$		S		
5	DAIYE BELTS	c		C		
6	BATTERY ELEC. LEVEL	C		5	_	L l -
7	ANTIFREEZE TEST TO* F	٧				<u> </u>
B	SERVICE BRAKES	٧	C			
9	TRANSMISSION	C	C			ļ
0:	AIR FILTER	٧		2		l
11	FUEL FILTERS	\$		S		
22	TIRES/TRACK	c	<u> </u>	c		<u> </u>
23						<u> </u>
4			L			ļ
:5				L		ļ <u> </u>
1. 2. 3.	OTES  Add other coverages and proc  B and 10 hour scheduled PM'.  If repairs are required, notify  MARKS	are consu	dered as dail	he appropri y PM servi	ste technica ces	t manuat





- None Found
  - Damage, Pilferage, or Loss
    - Initial box

울		OPERATION				
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
7	DAMAGE, PILFERAGE, LOSS	KSF		С		<u> </u>
2	LEAKS, GENERAL	2		C		1 1
3	FUEL, OIL, WATER	V		S		· · · · · · · · · · · · · · · · · · ·
4	ENGINE WARMUP	c				
5	INSTRUMENTS	c	С			
6	SAFETY DEVICES	C				
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			
10	STEERING	c	C	, i		
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	C				
14	AIR TANKS	\$		S		
15	DAIVE BELTS	С		C		
16	BATTERY ELEC. LEVEL	С		5		
17	ANTIFREEZE TEST TO * F	٧				
18	SERVICE BRAKES	٧	C			
19	"RANSMISSION	G	C			
20	AIR FILTER	٧		2		l
21	FUEL FILTERS	s		s		
22	TIRES/TRACK	С		c		
23						L
24						
25						





- None Found
  - Damage, Pilferage, or Loss
    - Initial box
    - Move to next Item and repeat

		OPERAT				
=	COVERAGE	BEFORE	DURING	AFTER	s Hou <del>x</del>	10 HOUR
3	DAMAGE, PILFERAGE, LOSS	KSF	2	С		
2	LEAKS, GENERAL	c		c		
3	FUEL, OIL, WATER	٧		\$		
4	ENGINE WARMUP	C				
5	INSTRUMENTS	c	С			
6	SAFETY DEVICES	C				
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				ļ <u>.</u>
9	CLUTCH	٧	С			
10	STEERING	С	С			·
11	ENGINE OPERATION		С			<u> </u>
12	UNUSUAL NOISES	C	С			<del></del>
13	LIGHTS AND REFLECTORS	С				
14	AIR TANKS	\$		S		<b>_</b>
5	DAIVE BELTS	C		C		<b></b>
16	BATTERY ELEC. LEVEL	C		\$		<b>_</b>
17	ANTIFREEZE TEST TO * F	٧				<b> </b>
18	SERVICE BRAKES	٧	C			<u> </u>
19	TRANSMISSION	С	C			<b></b>
20	AIR FILTER	٧		5		ļ
21	FUEL FILTERS	\$		S		<del>                                     </del>
22	TIRES/TRACK	С	<u> </u>	С		<del> </del>
23						<del> </del>
24			L			<del> </del>
25				ļ		1





### **During Operations**





- During checks
  - Completed during equipment operation
- Example

COVERAGE DAMAGE PILFERAGE LOSS	BEFORE	,			
		DURING	AFTER	s Hour	10 HOUR
Drimmar, File Childre, 6440	С		С		
LEAKS, GENERAL	С		c		
FUEL, OIL, WATER	V		Š		
ENGINE WARMUP	ē				
INSTRUMENTS	c	С			T
SAFETY DEVICES	C				
TOOLS AND EQUIPMENT	C				
B PUBLICATIONS	٧				<u> </u>
CLUTCH	٧	C			<u> </u>
STEERING	C	C			
ENGINE OPERATION		С			
2 UNUSUAL NOISES	C	C			
JIGHTS AND REFLECTORS	С				
AIR TANKS	\$		S		
DAIYE BELTS	С	L	C		
BATTERY ELEC. LEVEL	C		\$		<b>⊥</b> ↓ _
ANTIFREEZE TEST TO	F V				ļ
SERVICE BRAKES	٧	C			
* TRANSMISSION	G	C			<b>↓</b>
AIR FILTER	٧	L	5		
FUEL FILTERS	S		S		
Z TIRES/TRACK	c	<u> </u>	С		<b> </b>
3		<u> </u>			<b></b>
•		L			ļ
5					ļ <u> </u>





- During checks
  - Completed during equipment operation
- Example
  - During





- During checks
  - Completed during equipment operation
- Example
  - During
  - Item 5

윤			OPERATION			
31	COVERAGE	BEFORE	DURING	AFTER	s Hour	10 HOUR
5	DAMAGE, PILFERAGE, LOSS	С		С		<del> </del>
2	LEAKS, GENERAL	С		С		··
3	FUEL, OIL, WATER	V	<del>                                     </del>	S		· · · · · · · · · · · · · · · · · · ·
4	ENGINE WARMUP	ē				
5	INSTRUMENTS	c	С			· -
6	SAFETY DEVICES	С				
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			
10	STEERING	С	C			
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	С				
14	AIR TANKS	\$		S		
15	DAIYE BELTS	С		C		
16	BATTERY ELEC. LEVEL	С		\$		<u> </u>
17	ANTIFREEZE TEST TO * F	٧				<u> </u>
18	SERVICE BRAKES	٧	C			
19	TRANSMISSION	C	C			ļ
20	AIR FILTER	V	L	2		ļ <u> </u>
21	FUEL FILTERS	S		S		
22	TIRES/TRACK	С	<u> </u>	С		<u> </u>
23						<u> </u>
24						
25						





- During checks
  - Completed during equipment operation
- Example
  - During
  - Item 5
  - Check

울			OPERATION			
<u> </u>	COVERAGE	BEFORE	DURING	AFTER	s Hour	10 HOUR
,	DAMAGE, PILFERAGE, LOSS	С		С		<del> </del>
2	LEAKS, GENERAL	С		c		•
3	FUEL, OIL, WATER	V		S		†
4	ENGINE WARMUP	ē				
5	INSTRUMENTS	С	С			
6	SAFETY DEVICES	c c	7			
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			
10	MEERING	С	C	i i		1
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	С				
14	AIR TANKS	\$		S		
15	DAIYE BELTS	С		C		
16	BATTERY ELEC. LEVEL	С		5		L
17	ANTIFREEZE TEST TO* F	٧				l
18	SERVICE BRAKES	٧	C			L
19	TRANSMISSION	C	C			L
20	AJR FILTER	٧		3		ļ <u>.</u>
21	FUEL FILTERS	S		s		
22	TIRES/THACK	c		С		ļ
23						<u> </u>
24						
25						





- During checks
  - Completed during equipment operation
- Example
  - During
  - Item 5
  - Check
  - YES
  - NO

울			OPERATION			
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
7	DAMAGE, PILFERAGE, LOSS	С		С		<del> </del>
2	LEAKS, GENERAL	С		С		
3	FUEL, OIL, WATER	V		Š		
4	ENGINE WARMUP	ē				
5	INSTRUMENTS	С	KSF			
6	SAFETY DEVICES	6	7			1
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			1
10	STEERING	С	С	Ĭ.	-	
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	C	, and the second			
14	AIR TANKS	\$		S		
15	DAIYE BELTS	С		C		
16	BATTERY ELEC. LEVEL	C		5		
17	ANTIFREEZE TEST TO * F	٧				
18	SERVICE BRAKES	٧	C			
19	TRANSMISSION	C	C			
20	AIR FILTER	¥		2		l
21	FUEL FILTERS	s		s		
22	TIRES/TRACK	С		c		
23						L
24						
25						





- During checks
  - Completed during equipment operation
- Example
  - During
  - Item 5
  - Check
  - YES
  - <u>NO</u>

₽.	– Lubricate / No	erify t applica	0	— Adjus — Defec		epair Required od
<b>.</b>			OPERATION			
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
3	DAMAGE, PILFERAGE, LOSS	С		С		
2	LEAKS, GENERAL	С		c		
3	FUEL, OIL, WATER	ν		\$		
4	ENGINE WARMUP	c				
5	INSTRUMENTS	С	X			
6	SAFETY DEVICES	C				L
7	TOOLS AND EQUIPMENT	<b>/</b> c				
В	PUBLICATIONS	٧		<u> </u>		ļ <u>.</u>
	CLUTCH	٧	C			
10	STEERING	c	C			
11	ENGINE OPERATION		С			<u> </u>
	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	C				
	AIR TANKS	\$		S		<u> </u>
	DAIVE BELTS	c		C		
16	BATTERY ELEC. LEVEL	С		\$		<u> </u>
17	ANTIFREEZE TEST TO F	<u> </u>				<b>_</b>
18	SERVICE BRAKES	٧	C			<b>_</b>
	TRANSMISSION	C	C			
20	AIR FILTER	V	L	3		<u>-</u>
21	FUEL FILTERS	5		S		
_	TIRES/TRACK	СС	<u> </u>	С		<b> </b>
23			<u> </u>	<b> </b>		<u> </u>
24			L			
25				Ll		ļ <u> </u>





- During checks
  - Completed during equipment operation
- Example
  - During
  - Item 5
  - Check
  - YES
  - NO
    - Move to next Item and repeat

	- Adjust S Se - Check V Ve				stment/R	epair Required			
ь-		erny otapplic							
	· · · · · · · · · · · · · · · · · · ·		OPERATION		<del></del>				
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR			
1	DAMAGE, PILFERAGE, LOSS	C		,c		<del> </del>			
2	LEAKS, GENERAL	c		С		··			
3	FUEL, OIL, WATER	v	<del>                                     </del>	Š		· · · · · · · · · · · · · · · · · · ·			
4	ENGINE WARMUP	c							
5	INSTRUMENTS	c	V			† · · · -			
6	SAFETY DEVICES	С	^-						
,	TOOLS AND EQUIPMENT	c	<del>                                     </del>			<u> </u>			
В	PUBLICATIONS	٧							
9	CLUTCH	٧	C			† · -···- <b>-</b>			
0	STEERING	c	c			,			
1	ENGINE OPERATION		С			1			
2	UNUSUAL NOISES	C	С			<del></del>			
3	LIGHTS AND REFLECTORS	С	†						
4	AIR TANKS	\$	<del></del>	S		<b>!</b>			
5	DAIYE BELTS	С		C					
6	BATTERY ELEC. LEVEL	c	<del> </del>	5		<del>                                     </del>			
7	ANTIFREEZE TEST TO * F	٧							
B	SERVICE BRAKES	٧	C	· · · · · ·					
9	TRANSMISSION	G	С			T			
0	AIR FILTER	٧	t	5		1			
1	FUEL FILTERS	5		s					
├	TIRES/TRACK	С		С					
3						<del>   </del>			
4						<del>                                     </del>			
5			<u> </u>	·		<del> </del>			





# 10 min break





### After Operations





- Released By
  - Signed by mission supervisor

				-	1	IME	HOURS	OR MILE	s	REPORT TO (Location)			RELEAS (Signature	:
	1ST OP		mmy,	Bob	IN		STOP		Loc	ation	the	->	4ike I	Hardco
ار			SIGNAT		OUT	0730	1	423	_	erator is		GySgt / US		/ USM
<u> </u>	Ke	nne	eth		TOTAL		TOTAL		to	report	t o	ı	445	
OPERALIONA	2ND OF	Set	R T		1N		STOP			Торог		_		
EH/			SIGNAT	TURE	QUT		START							
ċ					TOTAL		TOTAL							
	1ST OPERATO		RATO	R										
	, ,,,		2ND OP	ERATO	R									
	FUE	LS		LUBES		OIL C	CHANGE LUBRICATION			ICATION	PM SERVICE			
	DIESEL (GAL)		OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MILI		R/MILE H	OUR/MILE DUE	HOUR/MILE COMPLETED	ТҮРЕ РМ	DUE	HOUR/MIL DUE	E HOUR/MILE COMPLETED
'n						500	2	45	500	245	500		500	245
EM	ARKS										1ST OPER	ATOR	'S SIGNATU	RE
											2ND OPER	RATOR	'S SIGNATU	RE
											EQUIPME	NT FO	REMAN'S SI	GNATURE





- After checks
  - Completed before returning the 10523 to the dispatcher
- Example

₽			OPERATION			]
	COVERAGE	BEFORE	DURING	AFTER	s Hour	10 HOUR
1	DAMAGE, PILFERAGE, LOSS	С		С		
2	LEAKS, GENERAL	С		c		1 1
3	FUEL, OIL, WATER	ν		S		<u> </u>
4	ENGINE WARMUP	C				
5	INSTRUMENTS	¢	С			· -
6	SAFETY DEVICES	c				1
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	С			1
10	STEERING	c	С	1		
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	C				
14	AIR TANKS	\$		s		
15	DAIYE BELTS	С		C		
16	BATTERY ELEC. LEVEL	С		\$		
17	ANTIFREEZE TEST TO * F	٧				
18	SERVICE BRAKES	٧	C			
19	TRANSMISSION	G	С			
20	AIR FILTER	٧		2		
21	FUEL FILTERS	s		s		
22	TIRES/TRACK	c		c		
23						
24						
25			<u> </u>			





- After checks
  - Completed before returning the 10523 to the dispatcher
- Example
  - After-

울			OPERATION			]
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
3	DAMAGE, PILFERAGE, LOSS	С		С		<del> </del>
2	LEAKS, GENERAL			c		
3	FUEL, OIL, WATER	٧		Š		
4	ENGINE WARMUS	c				
5	INSTRUMENTS	c	С			·
-	SAFETY DEVICES	С				
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			
10	STEERING	С	C			
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	С				
14	AIR TANKS	\$		S		
15	DAIVE BELTS	С		C		
16	BATTERY ELEC. LEVEL	C		\$		
17	ANTIFREEZE TEST TO * F	٧				
18	SERVICE BRAKES	٧	C			
19	"RANSMISSION	C	C			
20	AIR FILTER	V		2		l
21	FUEL FILTERS	s		s		
22	TIRES/TRACK	С		c		
23						L
24						
25		1	T			





- After checks
  - Completed before returning the 10523 to the dispatcher
- Example
  - After
  - Item 20-

오ㅣ			OPERATION			
	COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOUR
3	DAMAGE, PILFERAGE, LOSS	С		С		<del>                                     </del>
2	LEAKS, GENERAL	С		С		· · · · ·
3	FUEL, OIL, WATER	V		S		ļ
4	ENGINE WARMUP	c				
5	INSTRUMENTS	c	C			
6	SAFETY DEVICES	С				
7	TOOLS AND EQUIPMENT	c				
В	PUBLICATIONS	٧				
9	CLUTCH	٧	C			
10	STEERING	C	C			1
11	ENGINE OPERATION		С			
12	UNUSUAL NOISES	C	С			
13	LIGHTS AND REFLECTORS	С				
14	AIR TANKS	\$		S		
15	DAIYE BELTS	С		C		
16	BATTERY ELEC. LEVEL	С		5	_	L   _
17	ANTIFREEZE TEST TO * F	٧				<u> </u>
18	SERVICE BRAKES	٧	C			ļ
19	TRANSMISSION	C	C			<b>↓</b>
20	AIR FILTER	٧	L	5		ļ <u> </u>
21	FUEL FILTERS	S		S		
22	TIRES/TRACK	С	<u> </u>	C		<b></b>
23				<b> </b>		<u> </u>
24			L	ļ!		<b> </b>
25				L		ļ <u> </u>





- After checks
  - Completed before returning the 10523 to the dispatcher
- Example
  - After
  - Item 20
  - Service

e l			OPERATION				
	COVERAGE	BEFORE	DURING	AFTER	8 HOUR	10 HOUR	
1	DAMAGE, PILFERAGE, LOSS	С		С		<del>                                     </del>	
2	LEAKS, GENERAL	С		c		1	
3	FUEL, OIL, WATER	ν		\$		† <del></del>	
4	ENGINE WARMUP	č					
5	INSTRUMENTS	c	c			•	
6	SAFETY DEVICES	c	<del>                                     </del>			·	
7	TOOLS AND EQUIPMENT	c	<del></del>			† <u>-</u>	
В	PUBLICATIONS	V					
9	CLUTCH	- v	C	-		· · -···	
0	STEERING	<u> </u>		-		<del>                                     </del>	
1	ENGINE OPERATION		c			<b>├</b>	
12	UNUSUAL NOISES	<u> </u>	c			<del></del>	
.3	LIGHTS AND REFLECTORS	c				<del>                                     </del>	
14	AIR TANKS	<del>-</del>	<del>                                     </del>	5		+ +	
5	DAIYE BELTS	<del>- č</del>	<del></del>	C		<del>                                     </del>	
16	BATTERY ELEC. LEVEL	<del>- c -</del>		5		<del> </del>	
7	ANTIFREEZE TEST TO * F	<del>-</del> -				<del></del>	_
18	SERVICE BRAKES	<del>_</del>	0	<del> </del>		<del> </del>	
9	TRANSMISSION					<del> </del>	
20		<del></del>	ļ	3		<b>├</b>	
_	A)R FILTER			<b>S</b> 5		l	
21	FUEL FILTERS			- c			
Z	TRES/TRACK	С				<del> </del>	
23			<b></b>	<b> </b> -		<b>├</b>	
24			L	ļ	<u> </u>		
25	OTES			L		↓	
1. 2. 3.	Add other coverages and proc 8 and 10 hour scheduled PM', 11 repairs are required, notify MARKS	are const	dered an da:	he appropri y PM servi	ate technica ces	l manual.	





- After checks
  - Completed before returning the 10523 to the dispatcher
- Example
  - After
  - Item 20
  - Service
  - Clean Filter
    - Move to next Item and repeat

į			OPERATION			
	COVERAGE	BEFORE	DURING	AFTER	8 HOUR	10 HOUR
7	DAMAGE, PILFERAGE, LOSS	С		С		<del>                                     </del>
2	LEAKS, GENERAL	С		c		·
3	FUEL, OIL, WATER	V		\$		ļ
4	ENGINE WARMUP	c				<u> </u>
5	INSTRUMENTS	c	c			<del></del>
6	SAFETY DEVICES	С	<del></del>			·
7	TOOLS AND EQUIPMENT	c	<del>  </del>			+
В	PUBLICATIONS	٧				
9	CLUTCH	v	C	-		<b>↓</b> ···· <b>-</b>
20	STEERING	- <del>c</del>				<del></del>
11	ENGINE OPERATION		c			ł <del>-</del>
12	UNUSUAL NOISES	C	c			<del> </del>
13	LIGHTS AND REFLECTORS	c	<del>                                     </del>			<del> </del>
14	AIR TANKS	\$	<del>                                     </del>	s		<del>                                     </del>
15	DAIYE BELTS	- <del>c</del>		C		<del> </del>
-	BATTERY ELEC. LEVEL	- <del>c</del> -		<u> </u>		<del>                                     </del>
16		- <del></del>				<b>├</b>
17		<del>,</del>				<del> </del>
18	SERVICE BRAKES		C			<del> </del>
19	TRANSMISSION	C		KSF		<del> </del>
20	AIR FILTER		>			<del> </del>
21	FUEL FILTERS			S		<del> </del>
22	TIRES/TRACK	С	ļ	С		<del> </del>
23			<u> </u>			<del> </del>
4			L			
25	OTES	L				↓
3.	Add other coverages and proc 8 and 10 hour scheduled PM' If repairs are required, notify MARKS	a are consu	dered as dail	he appro <b>pr</b> i y PM servi	ate technica ces	! manual.





_	_		
		m	In

- Time Stop
- Totals
- WorkPerformed

CHER'S PERATOR SET CHER'S	mmy, Bob signature eth re signature	OUT TOTAL IN OUT TOTAL OR	0730	STOP START TOTAL STOP START TOTAL	423	Loc Ope	REPORT TO (Location) cation erator report	is	Mike H GySgt 1445	Time) lardco
CHER'S PERATOR SET CHER'S	mmy, Bob signature eth re signature	OUT TOTAL IN OUT TOTAL OR	0730	START TOTAL STOP	423	0pe	rator	is	GySgt	
CHER'S PERATOR SET CHER'S	eth  Resident to the state of t	OUT TOTAL IN OUT TOTAL OR		TOTAL STOP START	423	<b>-</b> '		1		/ USM
Set CHER'S	S SIGNATURE	IN OUT TOTAL		STOP START		to	report	to		
Set CHER'S	S SIGNATURE	TOTAL		START						
CHER'S	SSIGNATURE	TOTAL		+						
RK	IST OPERATO	)R	,	TOTAL		1				
RK										
	2ND OPERATO									
LS	LUBES	 S	OIL C	HANGE		LUBRI	ICATION		PM SERVICE	
GAS (GAL)	OE GO (QTS) (QTS)	GREASE (LBS)	HOUR/MILE		MILE H	OUR/MILE DUE	HOUR/MILE COMPLETED	TYPE PM DU	E HOUR/MILE	HOUR/MILE
			500	24	45	500	245	500	500	245
								1ST OPERATO	OR'S SIGNATUR	E
								2ND OPERAT	OR'S SIGNATUR	iE
								EQUIPMENT	FOREMAN'S SIG	NATURE
									2ND OPERAT  EQUIPMENT	1ST OPERATOR'S SIGNATUR  2ND OPERATOR'S SIGNATUR  EQUIPMENT FOREMAN'S SIG





- Time In
- Time Stop-
- Totals
- WorkPerformed

DAT	<b>6</b> 091	.015	EQUI	PMENT		LCRTF		1	08MC OR SE	ERIAL NO. 0	RGANIZATIO	™ Ma	rCorl	)et
					ר	IME	HOURS	OR MILE	s	REPORT TO (Location)		HELEASED BY (Signature – Time)		
	,	erator	-	Rob	IN	1630	STOP	427		ation	the	M	ike H	lardcor
بر	DISPAT	TCHER'S	SIGNA		OUT	0730	START	423	<b>⊸</b> i •	rator	1	GySgt / l		/ USMO
Š		nne			TOTAL		TOTAL		το	repor	ττο	_14	<del>145</del>	
OPERATIONA	FIS	Set	te		IN		STOP							
PER		TCHER'S		TURE	ФUТ		START		_					
ō					TOTAL		TOTAL							
	WORK IST OPERATO		ERATO	R										
	1 '''	DRMED	2ND OF	ERATO	R									
'n	FUE	ELS		LUBES		OIL CI	HANGE		LUBRI	ICATION		РМ	SERVICE	
RVICE	DIESEL (GAL)	GAS (GAL)	OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MILE		R/MILE H	OUR/MILE DUE	HOUR/MILE		DUE H	OUR/MILE DUE	HOUR/MILE COMPLETED
SE						500	2	45	500	245	500		500	245
REN	ARKS							·			1ST OPERA	ATOR'S	SIGNATUR	E
											2ND OPER	ATOR'S	SIGNATUF	tE
											EQUIPMEN	T FORE	MAN'S SIG	NATURE
EN	GINE	ER EQ	JIPME	NT O	PERA	TIONAL F	RECOF	ID	(112	45) NAVMC 105	23 (REV. 8-86)			MAY BE USED. 05-6304 U/I: PG





- Time In
- Time Stop
- Totals

Note: Hrs are written in half hour increments ie. (.5 or

30)

WorkPerformed

DAT	091	015	EQUI	PMENT		LCRTF			05MC OR SI	ERIAL NO. OF	IGANIZATION	MarCorl	Det
					ר	TIME	HOURS	OR MILI	5	REPORT TO (Location)		RELEASED BY (Signature – Time)	
	1ST OP			Bob	IN	1630	STOP	427			the	Mike H	lardcor
		-	SIGNA		OUT	0730	START	423		rator	1	<b>GvSqt</b>	/ USMC
IONA	Ke	nne	eth		TOTAL	>9	TOTAL	4	to	report	to	1445	
AFIO	2ND OF	ERATO	<b>#</b>		1N		STOP						
OPERA	DISPAT			TURE	ουτ		START						
ò	1ST OPERATO				TOTAL		TOTAL						
					R								
	PERFO	RMED	2ND OF	ERATO	R								
CE	FUE	LS		LUBES		OIL CI	HANGE LUBRICATION			ICATION		PM SERVICE	
	DIESEL (GAL)		OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MILI		R/MILE I	HOUR/MILE DUE	HOUR/MILE COMPLETED	TYPE PM DU	E HOUR/MILE DUE	HOUR/MILE COMPLETED
SE						500	2	45	500	245	500	500	245
REM	ARKS						,				1ST OPERATO	OR'S SIGNATUR	E
											2ND OPERAT	OR'S SIGNATUR	IE .
											EQUIPMENT	FOREMAN'S SIG	NATURE
EN	GINEE	R EQ	UIPME	NT O	PERA	TIONAL F	RECOF	RD	(112	45) NAVMC 1052	I 3 (REV. 8-86) PR	EVIOUS EDITIONS SN: 0000-00-00	MAY BE USED. 05-6304 U/I: PG





- Time In
- Time Stop
- Totals
- WorkPerformed
  - Verifiesmissionhas beencompleted

DAT	<b>6</b> 091	015	EQUIPMENT		LCRTF			08MC OR SI	ERIAL NO.	ORGANIZATI	MarCorl	Det		
				7	TIME	HOURS	OR MILE	s	REPORT 1	-	HELEASE (Signature –	:		
		IST OPERATOR Pile, Jimmy, Bob DISPATCHER'S SIGNATURE Kenneth 2ND OPERATOR			1630	STOP	427		ation		Mike F	lardcor		
Ļ	DISPAT				0730	START 423 TOTAL 4		<del>-</del> -  •	rator		Gyogt / Us			
NOL	2ND OF				9			to	repor	נ נט	1445			
OPERATIONA	FISSETTE DISPATCHER'S SIGNATURE			OUT		START		7						
õ				TOTAL		TOTAL			<u> </u>					
_		BE	1ST OPERATO	ny	<u>Pile</u>	W	ork	per	forn	ned				
Щ.	FUE	LS	LUBES		OIL C	HANGE	T	LUBR	ICATION		PM SERVICE			
ERVICE	DIESEL (GAL)		OE GO (QTS) (QTS)	GREASE (LBS)	HOUR/MILE		R/MILE H	OUR/MILE DUE	HOUR/MIL		DUE HOUR/MILE	HOUR/MILE COMPLETED		
S					500		45	500	245	500		245		
REM	ARKS									IST OPER	RATOR'S SIGNATUR	iE		
										2ND OPER	RATOR'S SIGNATUR	?E		
										EQUIPME	NT FOREMAN'S SIG	NATURE		
EN	GINEE	R EQI	JIPMENT O	PERA	TIONAL F	RECOR	ID	(112	45) NAVMC 10	)523 (REV. 8-86	i) PREVIOUS EDITIONS SN: 0000-00-0	MAY BE USED. 05-6304 U/I: PG		





- Diesel
- Gas
- Engine O
- Gear Oil
- Grease

DAT	091	.015	EQUIPM	MENT	ı	LCRTF			05MC OR SI	ERIAL NO. 0	RGANIZATIO	M <sup>NC</sup>	arCort	)et	
					Т	IME	HOURS	OR MIL	ES	(Location)			HELEASED BY (Signature – Time)		
	1ST OPERATOR Pile, Jimmy, Bob				IN	1630	STOP	427		ation	the	r	Mike Hardco		
AL	DISPAT	CHER'S	SIGNATU	RE	OUT	0730 9	START	423 4		Operator   to report		GySgt / US		/ USMO	
ATIONA	Kenneth 2ND OPERATOR FISSETTE DISPATCHER'S SIGNATURE				IN		STOP	-		<u></u>			L445		
OPER/				ı	TOTAL		START		$\dashv$						
	WORK IST OPERATOR		ny	Pile	W	ork	per	form	ed						
	PERFORMED 2ND OPERATO			RATO	R				•		_				
4	FUELS LUBES		JBES		OIL C	HANGE		LUBR	ICATION		1	PM SERVICE			
ERVI	DIESEL (GAL)		OE G (QTS) (Q	io its)	GREASE (LBS)	HOUR/MILI DUE		R/MILE LETED	HOUR/MILE DUE	HOUR/MILE		DUE	HOUR/MILE DUE	HOUR/MILE COMPLETED	
S	12					500	2	45	500	245	500		500	245	
HEM	ARKS												R'S SIGNATUR		
											EQUIPMEN	NT FO	REMAN'S SIG	NATURE	
EN	GINEE	R EQI	JIPMEN	IT O	PERA	TIONAL F	RECOF	RD	(112	45) NAVMC 105	23 (REV. 8-86)	PREV		MAY BE USED. 5-6304 U/I: PG	





- Diesel
- Gas
  - -N/A
- Engine Oil
- Gear Oil
- Grease

	091	015	1.00	PMENT		LCRTF			6274	<del>TJ</del>	RGANIZATION			
					Т	IME	HOURS	OR MILES		REPORT TO (Location)		RELEASE (Signature –	:	
		ist OPERATOR Pile, Jimmy, Bob			IN	1630	STOP	427				Mike F	lardco	
		DISPATCHER'S SIGNATURE				0730	START	423	⊣ •	rator	1 '	GySgt / USN		
Ϋ́	Ke	Kenneth 2ND OPERATOR FISSETTE			TOTAL	9	TOTAL	TOTAL 4		report	· +^	1445		
ATIONA	2ND OF				1N		STOP							
OPER/	DISPATCHER'S SIGNATURE			OUT		START								
ō					TOTAL		TOTAL							
	wo	RK	1ST OP	MI	'nV	Pile	W	ork	per	form	ed			
	PERFO	RMED	2ND OP	ERATO	R									
<u> </u>	FUE	FUELS LUBES				OILC	HANGE		LUBR	ICATION	:	PM SERVICE		
$\geq$	DIESEL (GAL)		OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MIL DUE		R/MILE HO	DUR/MILE DUE	HOUR/MILE COMPLETED	TYPE PM DUE	HOUR/MILE DUE	HOUR/MILE	
SE	12					500	2	45	500	245	500	500	245	
EM	ARKS										1ST OPERATOR	R'S SIGNATUR	ΙE	
											2ND OPERATO	R'S SIGNATUI	RE	
											EQUIPMENT FO	OREMAN'S SIG	NATURE	
	CINE	- P. FO	LUDME	INT O	DEDA	TIONAL F	PECOE	) D	(112	45) NAVMC 1052		OF	REMAN'S SIC	





- Diesel
- Gas– N/A
- Engine Oil
- Gear Oil
- Grease

					т	IME	HOURS	OR MILES	62744	REPORT TO (Location)	GANIZATION N	RELEASE (Signature –	D BY
		IST OPERATOR Pile, Jimmy, Bob DISPATCHER'S SIGNATURE  Kenneth			IN	1630	STOP 427				the	Mike Hardco	
					OUT	0730	START	423	၂ Upe	rator	15	GvSat	/ USM
	Ke				TOTAL	9	TOTAL 4		to	report	. +^	1445	
2	2ND OF	Se'	R_		1 <b>N</b>		STOP						
OPER/		DISPATCHER'S SIGNATURE			QUT		START		]				
õ	DIGITATOREN O OIGIFATORE			TOTAL		TOTAL		7					
	WORK IST OPERATOR		ก่ง	Pile	W	ork	per	form	ed				
	PERFO	RMED	2ND OP	ERATO	R				•				
VICE	FUELS LUBES			OIL C	OIL CHANGE			ICATION		PM SERVICE  JE HOUR/MILE HOUR/MILE			
ב	DIESEL (GAL)		OE OTS)	GO (QTS)	GREASE (LBS)	HOUR/MILI		R/MILE HO	DUR/MILE	HOUR/MILE COMPLETED	TYPE PM DUE	HOUR/MILE	HOUR/MILE
SE	12		1			500	2	45	500	245	500	500	245
EM	ARKS										1ST OPERATOR	R'S SIGNATUR	ΙE
											2ND OPERATO	R'S SIGNATUI	₹E
											EQUIPMENT FO	DREMAN'S SIG	NATURE





- Diesel
- Gas– N/A
- Engine Oil
- Gear Oil
  - -N/A
- Grease

DAT	<b>6</b> 091	015	EQUI	PMENT	L	CRTF			08MC OR SE	ERIAL NO. (	RGANIZATIO	M M	arCorD	)et	
					Т	IME	HOURS	OR MILI	s				HELEASEI (Signature –		
	1ST OPERATOR Pile, Jimmy, Bob			IN	1630	STOP 427 START 423			ation			Mike Hardc			
	DISPATCHER'S SIGNATURE				OUT			0730	Upe	rator	<b>1</b> S	GySgt / USM			
NAL	12.2			TOTAL	9	TOTAL	4	to	to report to			1445			
PERATIONA	2ND OPERATOR FISSETTE			1N		STOP									
EB/	DISPATCHER'S SIGNATURE				QUT		START								
ਠੇ				TOTAL		TOTAL									
	WORK 1ST OPERATOR WORK 2ND OPERATOR		ny	Pile	W	ork	per	forn	ned						
	PERFO	HWED	2ND OP	ERATO	н				_						
CE	FUE	LS		LUBES		OIL C	HANGE		LUBRI	CATION		PM SERVICE			
Σ	DIESEL (GAL)	GAS (GAL)	OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MILE		R/MILE PLETED	HOUR/MILE DUE	HOUR/MIL		DUE	HOUR/MILE DUE	HOUR/MILE COMPLETED	
SE	12		1			500	2	45	500	245	500		500	245	
REM	ARKS									· ·	1ST OPERA	TOR	'S SIGNATURI	E	
											2ND OPER	ATOF	R'S SIGNATUR	E	
											EQUIPMEN	iT FO	REMAN'S SIG	NATURE	
FN	GINEF	B EOI	JIPME	NT O	PERA	TIONAL F	RECOF	RD	(112	45) NAVMC 10			IOUS EDITIONS	MAY BE U	





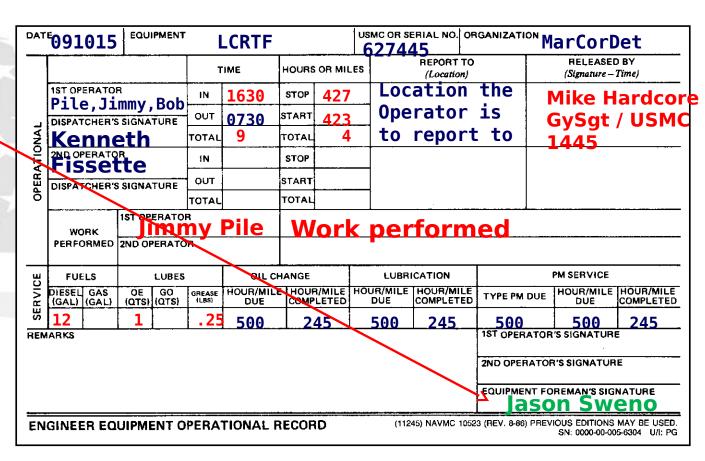
- Diesel
- Gas
  - -N/A
- Engine Oil
- Gear Oil
  - -N/A
- Grease.

ATI	091	015	EQUI	PMENT		_CRTF		U	52744	15	RGANIZATION				
					Т	IME	HOURS	OR MILES		REPORT TO (Location)		RELEASE (Signature –			
		ist operator Pile, Jimmy, Bob				1630	STOP	427				Mike F	lardco		
اد	DISPATCHER'S SIGNATURE				OUT	0730	START	442	4 .	rator	1 '	GySgt / USM			
ATIONA	Kenneth 2ND OPERATOR FISSETTE DISPATCHER'S SIGNATURE			TOTAL	9	TOTAL	4	LO	report	. 10	1445				
OPERAT				OUT		START		1							
ŏ				TOTAL		TOTAL			· · ·						
	wo		1ST OP	M	'nγ	Pile	W	ork	per	form	ed				
	PERFO	PERFORMED 2ND OPERATO			R										
CE	FUE	LS		LUBES		OIL CHANGE			LUBRI	ICATION		PM SERVICE	COMPLETE:		
2	DIESEL (GAL)		OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MILI		PLETED HO	UR/MILE DUE	HOUR/MILE COMPLETED	TYPE PM DUE	HOUR/MILE DUE	HOUR/MILE		
SE	12		1		. 25	500	2	45	500	245	500	500			
EM	ARKS										181 UPERATU	4 S SIGNAT UP	ie		
											2ND OPERATO	R'S SIGNATUI	₹E		
											EQUIPMENT FO	DREMAN'S SIC	NATURE		
						TIONAL F	\		/440	45) NAVING 1050	] 3 (REV. 8-86) PRE	COLIC EDITIONS	MAY BE LICE		





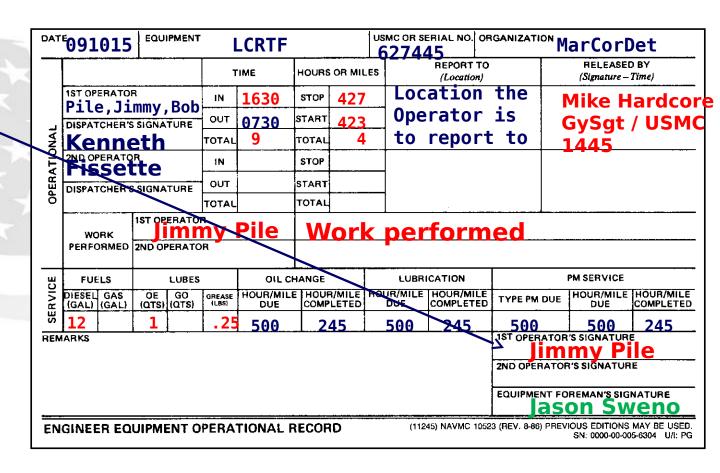
- Equip.Forman
  - Verifiesthat PMCSwascompletedproperly







- Operator signature
  - PMCSComplete







## Questions?





# 10 min break





# NAVMC 10523 PRACTICAL APPLICATION



#### **SCENARIO 'A'**



DAT		L <b>001</b>	EQUI	IPMENT		TRAM			USMC OR 8		ORG	GANIZATION	MARCORD	ET
	08				Т	IME	HOURS	OR MILE	ES	REPORT (Location			HELEASE (Signature –	:
	,	ERATO			IN	1730	STOP	1846	Cp.	l. Pinnaut	ts		Cpl. Pinna	uts
			S ON C		OUT	0730	START	1842		D. 3434			1630	
NA	Jas	on P S	Swend	)	TOTAL	10	TOTAL	4						
OPERATIONA	2ND O	PERATO	R		1N		STOP							
ER/	DISPA	TCHER'S	SIGNA	TURE	QUT		START							
Ö					TOTAL		TOTAL							
	wo	DRK		eratoi <mark>'our N</mark>										
	PERF	DRMED	2ND OF	PERATO	R					·	·			
핒	FU	ELS		LUBES		OIL C	HANGE		LUBF	RICATION			PM SERVICE	
SERVICE	DIESEL (GAL)	GAS (GAL)	OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MILI		R/MILE I	HOUR/MILE DUE	HOUR/MI COMPLET		TYPE PM DUI	E HOUR/MILE DUE	HOUR/MILE COMPLETED
SE	42		2			2000	17	50	2000	1750		2000	2000	250
REM	ARKS				25								DR'S SIGNATUR Name	E
												2ND OPERAT	OR'S SIGNATUE	łE
													FOREMAN'S SIG man, SNCO	
EN	GINE	ER EQ	UIPME	NT O	PERA	TIONAL F	RECOF	ID	(11.	245) NAVMC	10523	3 (REV. 8-86) PR	EVIOUS EDITIONS SN: 0000-00-00	MAY BE USED. 05-6304 U/I: PG



#### **SCENARIO 'A'**



	I.ege	nd for ma	rking										
A — Adjust S — Se C — Check V — Vo L — Lubricate / — No	erify	O		stment/R t Correct	epair Requi ed								
	COVERAGE OPERATION S HOUR 10 HOUR												
COVERAGE	BEFORE	DURING	AFTER	B HOUR	10 HOOK								
DAMAGE, PILFERAGE, LOSS	c X		cX										
LEAKS, GENERAL	СY		×										
FUEL, OIL, WATER			S INT		•								
ENGINE WARMUP	İNŦ		IN I										
INSTRUMENTS	c _	INT			•								
SAFETY DEVICES	NT NT	T			1								
TOOLS AND EQUIPMENT	S												
PUBLICATIONS	NT.				1								
CLUTCH	INT	iç, -			<b>1-</b>								
STEERING	NT	- INT	``										
ENGINE OPERATION					]								
UNUSUAL NOISES	INT	INT											
LIGHTS AND REFLECTORS	ÎNT	1											
AIR TANKS	INT		INT										
DRIVE BELTS	ÎNT	T	ıkı										
BATTERY ELEC. LEVEL	INT		INT										
ANTIFREEZE TEST TO F	ИЛТ				<u> </u>								
SERVICE BRAKES	MŤ	INT											
"RANSMISSION	Ñ.	INT											
AIR FILTER	INT	T	INT										
FUEL FILTERS	ίΝΤ		IÑT										
TIRES/THACK	· int		INT										
<del></del>													
					1 1								
		<u> </u>		<u> </u>	<del>                                     </del>								

#### REMARKS

- 1.Right front fender bent
- 1.Left side mirror missing

3. If repairs are required, notify the equipment chief.

- 2.C1 attachment tilt cylinder wiper seal
- 1. Lost retaining wing nut for air filter



#### SCENARIO 'B'



DAT		L001	EQUI	PMENT		MMV			USMC OR SE 62628		OR	GANIZATIO		<b>MARCORDI</b>	ΕT
	80				т	IME	HOURS	OR MILE	s	REPORT (Locatio				RELEASE( (Signature –	_ :
	,	ERATO			IN	0830	STOP	629	CW	O L. S. M	lariı	ne	<u> </u>	WO L. S.	Marine
الد			S ON O		OUT	1930	START	624		a Port			0	615	
Ā	Jas	on P S	Swend		TOTAL	13	TOTAL	5							
OPERATIONA	2ND O	PERATO	R		1 <b>N</b>		STOP								
ÉR/	DISPA	TCHER'S	SIGNA	TURE	QUT		START								
Ö					TOTAL		TOTAL			·					
	wo	DRK	1ST OP	eratoi our N											
	PERF	ORMED	2ND OP	ERATO	R					•	·				
щ	FU	ELS		LUBES		OILC	HANGE		LUBRI	CATION				PM SERVICE	
SERVICE	DIESEL (GAL)	GAS (GAL)	OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MIL		R/MILE F	OUR/MILE	HOUR/MI COMPLET		TYPE PM (	DUE	HOUR/MILE DUE	HOUR/MILE
SE			1			750	50	0	750	500		250		750	500
REM	ARKS		•		25									r's signaturi l <mark>ame</mark>	Ē
												2ND OPER	ATOF	R'S SIGNATUR	E
														REMAN'S SIG	
EN	GINE	ER EQ	UIPME	NT O	PERA	TIONAL F	RECOF	ID	(112	45) NAVMC	10523	3 (REV. 8-86)	PREV	IOUS EDITIONS SN: 0000-00-00	MAY BE USED 5-6304 U/I: PG



#### SCENARIO 'B'



DAMAGE, PILFERAGE, LOSS  LEAKS, GENERAL  JECH, OIL, WATER  REGINE WARMUP  SINSTRUMENTS  SAFETY DEVICES  TOOLS AND EQUIPMENT  PUBLICATIONS  LUTCH  LUTCH  LUTCH  LUNUSUAL NOISES  ATT  LIGHTS AND REFLECTORS  LIGHTS AND REFLECTORS  ATT  ARITHMENT  LATARKS  BATTERY ELEC. LEVEL  ANT  TOALS RAKES  NIT  LIGHTS AND REFLECT TO F NAT  SERVICE BRAKES  NIT  ANT INT  LIGHTS  SERVICE BRAKES  NIT  TOALS  LIGHTS		I.ege:	nd for ma	rking			
DAMAGE, PILFERAGE, LOSS  CX  CX  LEAKS, GENERAL  JOHNT  JO	C	— Check V — V	erify	O			
DAMAGE, PILFERAGE, LOSS  Z LEAKS, GENERAL  3 FUEL, OIL, WATER  4 ENGINE WARMUP  5 INSTRUMENTS  C T		00150405		OPERATION		8 May 6	10 11001
2 LEAKS, GENERAL 3 FUEL, OIL, WATER 4 ENGINE WARMUP 5 INSTRUMENTS 6 SAFETY DEVICES 7 TOOLS AND EQUIPMENT 9 PUBLICATIONS 110 STEERING 111 ENGINE OPERATION 122 UNUSUAL NOISES 131 LIGHTS AND REFLECTORS 14 AIR TANKS 15 DRIVE BELTS 16 BATTERY ELEC. LEVEL 17 ANTIFREEZE TEST TO F ATT 18 SERVICE BRAKES 19 TRANSMISSION 11 TIME 12 TARESMISSION 11 TIME 12 TRES/TRACK 11 INT 12 TRES/TRACK 11 INT 12 TRES/TRACK 11 INT 12 TRES/TRACK 12 TRES/TRACK 13 INT 14 INT 15 TRES/TRACK 15 INT 16 INT 17 TRES/TRACK 16 INT 18 TRES/TRACK 18 INT 18 TRES/TRACK 18 INT 18 INT 18 TRES/TRACK 18 INT 18 INT 18 TRES/TRACK 18 INT 18 INT 18 TRES/TRACK 18 INT 18 INT 18 INT 18 TRES/TRACK 18 INT 1		COVERAGE	BEFORE	DURING	AFTER	S HUGH	10 HOOR
3 FUEL, OIL, WATER 4 ENGINE WARMUP 5 INSTRUMENTS 6 SAFETY DEVICES 7 TOOLS AND EQUIPMENT 8 PUBLICATIONS 9 CLUTCH 111 ENGINE OPERATION 112 UNUSUAL NOISES 113 LIGHTS AND REFLECTORS 114 AIR TANKS 115 DRIVE BELTS 116 BATTERY ELEC. LEVEL 117 ANTIFREEZE TEST TO F NT NT NT NT NT NT NT NT NT NT NT NT NT	3	DAMAGE, PILFERAGE, LOSS	c X		cX		
3 FUEL, OIL, WATER 4 ENGINE WARMUP 5 INSTRUMENTS 5 SAFETY DEVICES 7 TOOLS AND EQUIPMENT 8 PUBLIGATIONS 10 STEERING 11 ENGINE OPERATION 12 UNUSUAL NOISES 13 LIGHTS AND REPLECTORS 14 AIR TANKS 15 DRIVE BELTS 16 BATTERY ELEC. LEVEL 17 ANTIFREEZE TEST TO F INT 18 SERVICE BRAKES 19 TARSMISSION 10 THE SERVICE BRAKES 10 TO THE SERVICE BRAKES 10 TO THE SERVICE BRAKES 11 THE SERVICE BRAKES 11 THE SERVICE BRAKES 12 THES/TRACK 13 THES/TRACK 14 THESES/TRACK 15 THES/TRACK 16 THE SERVICE BRAKES 17 TO THE SERVICE BRAKES 18 THE SERVICE BRAKES 19 THE SERVICE BRAKES 10 THE SERVICE BRAKES 10 THE SERVICE BRAKES 10 THE SERVICE BRAKES 10 THE SERVICE BRAKES 11 THE SERVICE BR	2	LEAKS, GENERAL	INT		INT		
S INSTRUMENTS  8 SAFETY DEVICES  7 TOOLS AND EQUIPMENT  8 PUBLICATIONS  9 CLUTCH 10 STEERING  11 ENGINE OPERATION  12 UNUSUAL NOISES  13 LIGHTS AND REFLECTORS  14 AIR TANKS  15 DRIVE BELTS  16 BATTERY ELEC. LEVEL  17 ANTIFREEZE TEST TO F NT  18 SERVICE BRAKES  19 TARKSISSION  10 TARKSISSION  11 TIT  12 AIR FILTER  21 FUEL FILTERS  11 TIT  22 TERES/TRACK  11 TOOLS AND  12 TOOLS AND  13 TOOLS AND  14 TIT  15 TOOLS AND  16 TOOLS AND  17 TOOLS AND  18 TOOLS AND  19 TARKSISSION  10 TOOLS AND  11 TOOLS AND  11 TOOLS AND  12 TOOLS AND  12 TOOLS AND  13 TOOLS AND  14 TOOLS AND  15 TOOLS AND  16 TOOLS AND  17 TOOLS AND  17 TOOLS AND  18 TOOLS AND  19 TOOLS AND  19 TOOLS AND  19 TOOLS AND  19 TOOLS AND  19 TOOLS AND  19 TOOLS AND  19 TOOLS AND  19 TOOLS AND  19 TOOLS AND	3	FUEL, OIL, WATER					
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18 BATTERY ELEC. LEVEL RNT INT  17 ANTIFREEZE TEST TO F INT  18 SERVICE BRAKES INT INT  19 TRANSMISSION INT INT  20 AJR FILTER INT  21 FUEL FILTERS INT  22 TIRES/IRACK INT  23 24	15	DAIYE BELTS					
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20 AJR FILTER   NIT   INT   21 FUEL FILTERS   ÎNT   IÑT   22 TIRES/IRACK   INT   INT   23   24	19	TRANSMISSION	NIT	INT			<b>†</b>
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23 24	22		NT		TAL		
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731	25			<u> </u>			<del> </del>

1.Damage engine hatch tore right side mirror off

REMARKS

1.Air hose missing 1.Fork carriage bent 15.Drive belt worn 5. Tachometer INOP



#### SCENARIO 'C'



DAT		L <b>001</b>	EGU	IPMENT	ı	LCRTF			USMC OR SE 36325		ORC	SANIZATION	/ARCORD	ET
	80				т	IME	HOURS	OR MILE	s	REPORT (Locatio			HELEASEI (Signature –	:
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			S ON C		OUT	0930	START	325		4415	, ui g	1	.245	our g
NA			Swen		TOTAL	4	TOTAL	0	_					
OPERATIONA	2ND OF	PERATO	R		1N		STOP							
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щ	FUE	ELS		LUBES		OILC	HANGE		LUBRI	CATION	:		PM SERVICE	
~	DIESEL (GAL)	GAS (GAL)	OE (QTS)	GO (QTS)	GREASE (LBS)	HOUR/MIL DUE		R/MILE F	OUR/MILE	HOUR/MI	LE	TYPE PM DUE	HOUR/MILE DUE	HOUR/MILE
SE	6					500	0		500	0		500	500	0
REM	ARKS											1ST OPERATOR Your N	lame	
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											Ì	EQUIPMENT FO	REMAN'S SIG	
EN	GINE	R EQ	UIPMI	ENT O	PERA	TIONAL I	RECOF	RD	(112	45) NAVMC	10523	(REV. 8-86) PREV	IOUS EDITIONS SN: 0000-00-00	MAY BE USED 05-6304 U/I: PG



#### SCENARIO 'C'



			"A" PM S nd for ma				
C	— Adjust S — Se — Check V — Vo — Lubricate / — No		O		stment/R t Correct	epair Requ ed	ired
£			OPERATION		s Hous	10 HOUR	
	COVERAGE	BEFORE	DURING	AFTER	B MUUN	10 HOOK	
3	DAMAGE, PILFERAGE, LOSS	INT		INT			
2	LEAKS, GENERAL	Ý		X			
3	FUEL, OIL, WATER	V.T		S INT			
4	ENGINE WARMUP	ĬNŦ		- INT			
5	INSTRUMENTS	C	ÎNT				
6	SAFETY DEVICES	- ÎNT	1101				
7	TOOLS AND EQUIPMENT	S.T					
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9	CLUTCH	INT	- ikit				
10	STEERING	ŇŤ	- INT				
11	ENGINE OPERATION		ığı.				
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22	TIRES/THACK	i - int		TAT			
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25			<u> </u>			†           †	

- 2. 8 and 10 hour scheduled PM's are considered as daily PM services
- 3. If repairs are required, notify the equipment chief.

#### REMARKS

- 16. Had to slave off
- 2.C1 fork side shift cylinder
- 13.Left tail light INOP





#### 10 min break





# CONSOLIDATED ENGINEER EQUIPMENT OPERATION LOG AND SERVICE RECORD NAVMC 10524 (CON-LOG)



#### **OVERVIEW**



- Con-Log
  - Purpose
  - Characteristics
  - Operator Responsibilities
  - Preparation Instructions



#### **PURPOSE**



 Provides authority for an operator to operate on an assigned mission.

 May be used in place of a trip ticket when equipment is being operated on a project site for extended periods time.



#### **PURPOSE**



- Records mileage/hours for PMCS scheduling.
- Contains BEFORE, DURING, and AFTER checks and services checklist
- Need not be prepared when equipment has an ERO submitted, or is operated in the motorpool.



#### NAVMC 10524 (FRONT)



SN	QUIPMENT NO	MENCLATU	RE			ID N		USMC OR		)	DATE RE	CORD OPENED	DATE RECORD	CLOSED	CONT	FROL NO OR UNIT
3501000	REFERENCES:	OPERATION	MAINTENAN	CE-TM					PARTS	- SL-4			l	RECOR	DS-TM	4700-16/1
֓֞֞֞֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֓֡֓֡֓֡	PMCS DUE: Use Pencil only	0										JLED PMCS (erformed)	NEXT SCHEDULED (Enter Date De			CATION DUE NEXT CS (Enter Type)
	SCHEDULED PMCS															
		OPER	ATION								SER	VICE				
	DATE		ETER OR R READING	TOTAL HR/MI	GAS	POL	ONSUMP	OIL	OIL	FIL	IR TER ANED/	HR/MI PMCS	ERO NO.	UNI	IT	SIGNATURE
L		STARTED	STOPPED	OPER.	(GAL)	(GAL)	WT	WT	wr		NGED	COMPLETED				
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#### NAVMC 10524 (BACK)



					DAILY P	REVENTI	VE #	MAINTENANCES SERVICES		
·	Leg	end for mar	king				ITE	COVERAGE AND PROCEDURE	ITEM	COVERAGE AND PROCEDURE,
- Adjust equired - Check	S - Servic V - Verify	ə		,	ustment/Rep feat Carrect		1	DAMAGE, PILFERAGE, LOSS.  Examine for signs of any obvious damage, pilferageor loss of components, attachments, or accessories.	12	UNUSUAL NOISES. Note for signs of metal grinding, squealing, or thumping. Observe for sig of excessive backlash and worm sheave bushing or gears.
COVERAGE		OPERATION		8 HOUR	10 HOUR		2	LEAKS, GENERAL. Check under equipment and in engine compartment for signs of fuel, oil, water, gear oil, or brake fluid leaks.	13	LIGHTS AND REFLECTORS. Test for adequacy performance and service ability. Broken or crack-
COVERAGE  DAMAGE, PILFERAGE, LG	BEFORE	DURING	AFTER				3	FUEL, OIL, WATER. Verify levels and condition. Water level in radiatormust be as specified in TM. Fuel tank to be	l	lenses and reflectorsare to be replaced.
LEAKS, GENERAL	ss c		С					full and free of excessive sediment deposit as noted at the sediment bowl. Oil to be clean and at level specified by	14	<u>AIR TANKS</u> . Drain to prevent accumulation of condensation or freezing.
3 FUEL, OIL, WATER			5					TM. Refill to level after each operation. Contaminated fuel, water, and lubricant chief if contaminated occurs frequently	15	DRIVE BELTS. Verifyadjustments and con
4 ENGINE, WARMUP 5 INSTRUMENTS	e c	c					4	ENGINE WARMUP. Allow engine to operate sufficientlyto reach operating temperature. Inspect for obvious leaks and		tion. Belts having oil and grease on the are to be cleaned as soon as possible.
6 SAFETY DEVICES 7 TOOLS AND EQUIOMENT	C C							note for signs of improperoperationsuch as: (1) unusual noises (knocks, growlinger ginding). (2) excessive smoking, and (3) throttleresponse.		BATTERY LEVEL. Electrolytelevel to be specific by the TM. Report any excessive water
8 PUBLICATIONS 8 CLUTCH	v v				-			INSTRUMENTS . All instruments and gages are to function		consumption to the equipment chief. Terminals to be clean and tight.
STEERING	c	c.					5	most importance are: (1) water temperaturetu show a reading of to, (2) oil pressure to registerbetween and on the page_131 ammater to show a high rate of	17	ANTIFREEZE. Degree of protectionto be verifie with a hydrometer. Do not add water in a protected cooling system without consulting the
12 UNUSUAL NOISES	G	c						charge inmediately following starting; then reduced to approximately 5 amps.	18	equipment chief.
13 LIGHTS AND REFLECTOR	c s		S				6	SAFETY DEVICES. Check mirrors, home, fire extinguishers, boom stops, and turn signals for proper	'*	SERVICE BRAKES. Verify proper adjustment ar check operation immediately upon moving equipment.
15 DRIVE BELTS 16 BATTERY ELEC. LEVEL	c		C s				1_	functioningand/or condition.  TOOLS AND EQUIPMENT. Tools and assigned	19	TRANSMISSION. Check Muid level in accordance with TM. Check for overheating during operation.
ANTIFREEZE TEST TO	_ F _ v	-					7	serviceability, completeness and condition.	20	AIR FILTERS. Verify that air filterelement is cliud (if required) oil level correct. Service afteres
19 TRANSMISSION	c	С					8	PUBLICATIONS Verify that required publications are aboard the equipment.		day of operationer more often if required.
21 FUEL FILTER	v s	s s	s				9	CLUTCH. Verify adjustmentand tension. Note for signs of excessive heating while under load.	21	FUEL FILTERS. Drain to prevent accumulations condensation.
22 TRES/TRACK 23 24	c		С				10	STEERING. Cover adequacy of all types of steering mechanisms, such as clutches, brakes, air, hydraulic, and gear.	22	TIRES/TRACKS . Time to be inflated to recommended pressure and free from major outs and bruies. Tracks to be properly adjusted for tension and rollers correctly serviced.
25 NOTES:							11	ENGINE OPERATION. Check for irregular performance, such as misses and unusual noises. Verify adequacy of power by subjecting the equipment to a load-performance test.		
<ol> <li>Add other cover nanual.</li> <li>8 &amp; 10 hour PN</li> </ol>	•				rrate technir	cal		COSC.		
REMARKS										
							L			NAVMC 10524 (Rev. 12-93) (EF) (Reverse)
										±U,S, GPO; 1995—636-









- Complete all blocks pertaining to the operation and maintenance while under the operator's control before returning the equipment to the motor pool.
- Operator completes 8-10 hr daily PMCS as recommended by the TM and initials pertaining blocks.





#### Before Operations



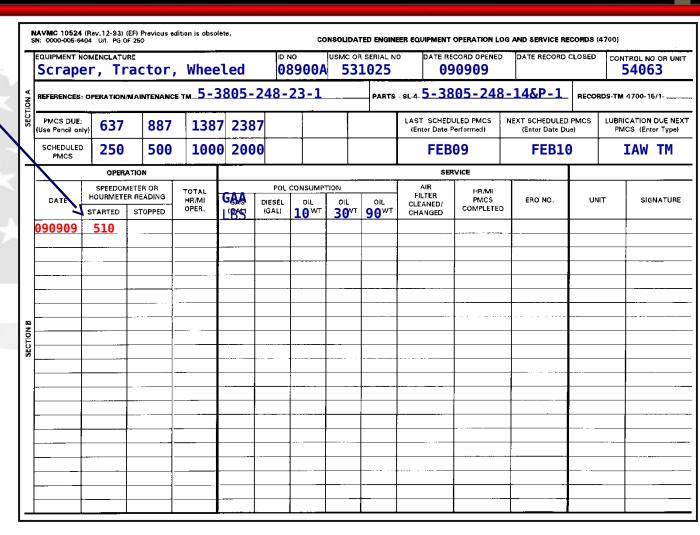


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	NON A	REFERENCES: 0	PERATION/	MAIN	TENANCE	тм 5-3	805-	248-	23-	1		PARTS	- sL-4- <mark>5</mark>	-380	95-248-	14&P-1	RECORE	DS-TM 4	700-16/1
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		SCHEDULED PMCS	250		500	100	200	0						FEB0	)9	FEB10	)	I	AW TM
			OPER#	ATION				'			·			SERV	/ICE		•		
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- Date
- Start Hours







- Perform before checks
  - Only mark it
     Adj/Rpr req.
  - Notify foreman or dispatch

						DAILY P	REVENT	IVE M	IAINTENANCES SERVICES		
		Leg	end for mar	king				ITEN	COVERAGE AND PROCEDURE	ITEM	COVERAGE AND PROCEDURE,
	Adjust	S - Service	8		X Adju	ustment/Rep	air	1	DAMAGE, PILFERAGE, LOSS.	12	UNUSUAL NOISES. Note for signs of metal
	uired Check	V - Verify			O - De	feat Correct	ted		Examine for signs of any obvious damage, pilferage or loss of components, attachments, or accessories.		grinding, squeating, or thumping. Observe for sign of expessive backlash and worn sheave bushing or gears.
Š			OPERATION		l			2	LEAKS, GENERAL. Check under equipment and in engine compartment for signs of fuel, oil, water, gear oil, or brake	13	LIGHTS AND REFLECTORS. Test for adequacy
TEM	COVERAGE	BEFORE	DURING	AFTER	8 HOUR	10 HOUR		3	fluid leaks.  FUEL, OIL, WATER. Verify levels and condition. Water		performance and service ability. Broken or cracks lenses and reflectors are to be replaced.
1	DAMAGE, PILFERAGE, LOSS			С				1 3	level in radiatormust be as specified in TM. Fuel tank to be	14	AIR TANKS. Drain to prevent accumulation of
2	LEAKS, GENERAL	с		С			1	ı	full and free of escessive sediment deposit as noted at the sediment bowl. Oil to be clean and at level specified by		condensationer freezing.
3	FUEL, OIL, WATER	- v		S	1			1	TM. Refill to level after each operation. Contaminated fuel, water, and lubricantchief if contaminated occurs frequently.	15	DRIVE BELTS. Verifyadjustments and con-
4	ENGINE, WARMUP	c						1			tion. Belts having oil and grease on the
5	INSTRUMENTS	c	С					4	ENGINE WARMUP. Allow engine to operate sufficiently to reach operating temperature. Inspect for obvious leaks and		are to be cleaned as soon as possible.
в	SAFETY DEVICES	С						1	note for signs of improperoperationsuch as: (1) unusual noises (knocks, growlinger girnding), (2) excessive	16	BATTERY LEVEL. Electrolytelevel to be specific
7	TOOLS AND EQUIOMENT	С	Ĭ						smoking, and (3) throttleresponse.		by the TM. Report any excessive water consumption to the equipment chief. Terminals to
8	PUBLICATIONS	V			l				INSTRUMENTS . All instruments and gages are to function	1	be clean and tight.
9	CLUTCH	V	С				1	5	as prescribed in appropriate technical manuals. Those of most importance are: (1) water temperature to show a	17	ANTIFREEZE. Degree of protectionto be verifie
10	STEERING	С	c.						reading of to, 12) oil pressure to register between		with a hydrometer. Do not add water in a protected cooling system without consulting the
11	ENGINE OPERATION		c		1			1	and on the page. (3) ammater to show a high rate of charge immediately following starting; then reduced to		equipment chief.
12	UNUSUAL NOISES	C	С		<u> </u>				approximately5 amps.	18	SERVICE BRAKES. Verify proper adjustment ar
13	LIGHTS AND REFLECTORS	С						1	SAFETY DEVICES. Check mirrore, horns, fire		check operationimmediately upon moving
14	AIR TANKS	s		S				6	extinguishers, boom stops, and turn signals for proper functioning and/or condition.	l	aquipment.
15	DRIVE BELTS	c		c	ļ		-		,	19	TRANSMISSION . Check fluid level in accorden
16	BATTERY ELEC. LEVEL ANTIFREEZE TEST TOF	С		S			-	7	TOOLS AND EQUIPMENT. Tools and assigned attachments or accessories are to be checked for		with TM. Check for overheating during apertion
17	SERVICE BRAKES	`  v			ļ		-	4	serviceability, completeness and condition.	20	AIR FILTERS. Verify that air filterelement is cle
18	TRANSMISSION	_ v	С	<b>_</b>	-		ļ	1.	PUBLICATIONS . Verify that required publications are	l 2°	and (if required) oil level correct. Service afterest day of operationor more often if required.
19	AIR FILTER	c	С				<u> </u>	8	aboard the equipment.		1 ' '
20	FUEL FILTER	· v	8	ļ <u> </u>	-		├	- ,	CLUTCH . Verify adjustmentand tension. Note for signs of	21	FUEL FILTERS. Drain to prevent accumulations condensation.
21	TIRES/TRACK	5		s	+	<b> -</b>	ļ	┨ "	excessive heating while underload.	I -	
22	FREDITAGE	c		С	<del></del>			10	STEERING. Cover adequacy of all types of steering mechanisms, such as clutches, brakes, air, hydraulic, and	22	<u>TIRES/TRACKS</u> . Tires to be inflated to recommended pressure and free from major cuts
23	<u> </u>	1					<del> </del>	┨¨	gear.	~	and bruies. Tracks to be properly adjusted for tension and rollers correctly serviced.
24		<u> </u>		<del></del>	1		<del> </del> -	-	ENGINE OPERATION. Check for irregular performance,	l	totision and foliats currectly serviced.
25		<u> </u>				l		11	such as misses and unusual noises. Verify adequacy of	l	
NO1	FES: 1. Add other coverage nual.	s and proce	edures desig	nated by 1	the approp	riate techni	cal		power by subjecting the equipment to a load-performance test.		
	2. 8 & 10 hour PMCS	's are consi	dered as da	ily PMCS's	S.			1			
RI	EMARKS										
										NAVMC 10524 (Rev. 12-93) (EFI (Reverse)	
									· ·		%U.S. GPO; 1995—6364





### During Operations





- Perform during checks
  - Only mark if Adj/Rpr req.
  - Notify foreman or dispatch

	loa	end for mark	kina		· · · · · · · · · · · · · · · · · · ·		ITEM	COVERAGE AND PROCEDURE	ITEM	COVERAGE AND PROCEDURE
- Adjust	S - Service			X · Δdiı	ustment/Rep	air	1	DAMAGE, PILFERAGE, LOSS.	12	UNUSUAL NOISES. Note for signs of metal
quired - Che-k	V - Verify	•			feat Correct			Examine for signs of any obvious damage, pilferageor loss of components, attachments, or accessories.		grinding, squealing, or thumping. Observe for of excessive backlash and worn sheave bush
		OPERATION					2	LEAKS, GENERAL. Check under equipment and in engine compartment for signs of fuel, oil, water, gear oil, or brake	13	or gears.
COVERAGE	BEFORE	DURING	AFTER	8 HOUR	10 HOUR			fluid leaks.	,,	<u>LIGHTS AND REFLECTORS</u> . Test for adequent performance and service ability. Broken or crulenses and reflectors are to be replaced.
DAMAGE, PILFERAGE, LOSS	- c		С				3	FUEL, OIL, WATER. Verify levels and condition. Water level in radiatormust be as specified in TM. Fuel tank to be	14	AIR TANKS. Drain to prevent accumulation
LEAKS, GENERAL	- c							full and free of escessive sediment deposit as noted at the sediment bowl. Oil to be clean and at level specified by		condensationer freezing.
FUEL, OIL, WATER	+- <del>-</del>		- s	1			1	TM. Refill to level after each operation. Contaminated fuel,	15	DRIVE BELTS, Verityadjustments and
ENGINE, WARMUP	c			1	-		1	water, and lubricantchief if contaminatedoccurs frequently.	15	tion. Belts having oil and grease on
INSTRUMENTS	-	c					4	ENGINE WARMUP. Allow engine to operate sufficientlyto reach operating temperature. Inspect for obvious leaks and		are to be cleaned as soon as possible
SAFETY DEVICES	i c			1			1	note for signs of improperoperation such as: (1) unusual	16	BATTERY LEVEL. Electrolytelevel to be spi
TOOLS AND EQUIDMENT	-			l			1	noises (knocks, growlinger grinding), (2) excessive smoking, and (3) throttleresponse.	Ì	by the TM. Report any excessive water
PUBLICATIONS	v			<del>                                     </del>	† —		1	,		consumption to the equipment chief. Termi be clean and tight.
сілтен	<del>                                     </del>	С		·			1 5	INSTRUMENTS. All instruments and gages are to function as prescribed in appropriate technical manuals. Those of	17	AUTOFORCE D. A. A. A. A. A. A. A. A. A. A. A. A. A.
STEERING	c	c.		<b>—</b>			1 "	most importance are: (1) water temperatureto show a reading of to, (2) oil pressure to register between	.,	ANTIFREEZE. Degree of protectionto be ve with a hydrometer. Do not add water in a
ENGINE OPERATION		c		1			1	and on the page, (3) ammeter to show a high rate of		protected cooling system without consulting equipment chief.
UNUSUAL NOISES	С .	С					1	charge immediately following starting; then reduced to approximately 5 amps.		1
LIGHTS AND REFLECTORS	c			1			1	SAFETY DEVICES. Check mirrors, horns, fire	18	SERVICE BRAKES. Verify proper adjustments of the check operation immediately upon moving
AIR TANKS	Ś		5				6	extinguishers, boom stops, and turn signals for proper		equipment.
DRIVE BELTS	c		С	1			1	functioningand/or condition.	19	TRANSMISSION , Check fluid level in accor
BATTERY ELEC. LEVEL	С		8				7	TOOLS AND EQUIPMENT. Tools and assigned		with TM. Check for overheatingduring open
ANTIFREEZE TEST TO	' v						1	attachments or accessories are to be checked for serviceability, completeness and condition.		AID FILTEDO NO 15 NO A 1 SE
SERVICE BRAKES	v	С			[			PUBLICATIONS . Verify that required publications are	20	AIR FILTERS. Verify that air filterelement and (if required) oil level correct. Service aff
TRANSMISSION	С	С					8	aboard the equipment.		day of operationor more often if required.
AIR FILTER	٧	S					1	CLUTCH . Verify adjustment and tension. Note for signs of		FUEL FILTERS. Drain to prevent accumulat
FUEL FILTER	s		s				9	excessive heating while under load.	21	condensation.
TRES/TRACK	c		С	L			1	STEERING. Cover adequacy of all types of steering		TIRES/TRACKS. Tires to be inflated to recommended pressure and free from major
3				ļ			10	mechanisms, such as clutches, brakes, air, hydraulic, and gear.	22	and bruies. Tracks to be properly adjusted to
1						L	1	<b>"</b>		tension and rollers correctly serviced.
;	<u> </u>					L	11	ENGINE OPERATION. Check for irregular performance, such as misses and unusual noises. Verify adequacy of		
OTES: 1. Add other coverage anual. 2. 8 & 10 hour PMCS					riate technic	al		power by subjecting the equipment to a load-performance test.		





## 10 min break





#### After Operations





- Perform after checks
  - Only mark if Adj/Rpr req.
  - Notify foreman or dispatch

╌						DAILY P	REVENTI	VE M	AINTENANCES SERVICES		
l⊢		Leg	end for marl	king				ITEM	COVERAGE AND PROCEDURE	ITEM	COVERAGE AND PROCEDURE
	Adjust iired	S - Service	,		X - Adju	ustment/Rep	air	1	DAMAGE, PILFERAGE, LOSS. Examine for signs of any obvious damage, pilferageor loss	12	UNUSUAL NOISES. Note for signs of metal grinding, squealing, or thumping. Observe for signs
		V - Verify	_		O - De	fect Correct	bet	İ	of components, attachments, or accessories.		of excessive backlash and worn sheave bushings or gears.
, N	0.000		OPERATION			10 HOUR		2	<u>LEAKS, GENERAL</u> . Check under equipment and in engine compartment for signs of fuel, oil, water, gear oil, or brake	13	LIGHTS AND REFLECTORS. Test for adequacy of
ITEM NO	COVERAGE	BEFORE	DURING	AFTER	8 HOUR	10 HOUR		L	fluid leaks.  FUEL, QIL, WATER. Verify levels and condition. Water		performance and service ability. Broken or cracked lenses and reflectors are to be replaced.
1	DAMAGE, PILFERAGE, LOSS	с		С				3	level in radiatormust be as specified in TM. Fuel tank to be full and free of escessive sediment deposit as noted at the	14	AIR TANKS. Drain to prevent accumulation of
2	LEAKS, GENERAL	c		С				l	sediment bowl. Oil to be clean and at level specified by		condensationer freezing.
3	FUEL, OIL, WATER	v		5				l	TM. Refill to level after each operation. Contaminated fuel, water, and lubricantchief if contaminated occurs frequently.	15	DRIVE BELTS, Verityadjustments and condi-
4	ENGINE, WARMUP	С						l	FALCONIE MA PARINE AND AND AND AND AND AND AND AND AND AND		tion. Belts having oil and grease on them
5	INSTRUMENTS	С	С					4	<u>ENGINE WARMUP</u> . Allow engine to operate sufficientlyto reach operating temperature. Inspect for obvious leaks and		are to be cleaned as soon as possible.
6	SAFETY DEVICES	С						l	note for signs of improperoperation such as: (1) unusual	16	BATTERY LEVEL. Electrolytelevel to be specified
7	TOOLS AND EQUIOMENT	С						l	noises (knocks, growlingor glinding), (2) excessive smoking, and (3) throttleresponse.		by the TM. Report any excessive water consumption to the equipment chief. Terminals to
8	PUBLICATIONS	] v						1	INSTRUMENTS . All instruments and gages are to function		be clean and tight.
9	CLUTCH	٧	С					5	as prescribed in appropriate technical manuals. Those of	17	ANTIFREEZE. Degree of protectionto be verified
10	STEERING	С	c.					1	most importance are: (1) water temperature to show a reading of to, (2) oil pressure to register between		with a hydrometer. Do not add water in a
11	ENGINE OPERATION		С					1	and on the page, (3) ammeter to show a high rate of		protected cooling system without consulting the squipment chief.
12	UNUSUAL NOISES	C	С					1	charge immadiately following starting; then reduced to approximately 5 amps.		` `
13	LIGHTS AND REFLECTORS	С					i	1	SAFETY DEVICES. Check mirrors, horns, fire	18	SERVICE BRAKES. Verify properadjustment and check operation immediately upon moving
14	AIR TANKS	s		S				6	extinguishers, boom stops, and turn signals for proper		equipment.
15	DRIVE BELTS	С		С			1	1	functioningand/or condition.	19	
16	BATTERY ELEC. LEVEL	С		5				7	TOOLS AND EQUIPMENT. Tools and assigned		TRANSMISSION. Check fluid level in accordance with TM. Check for overheating during operation.
17	ANTIFREEZE TEST TQ F	v						1 ^	attachments or accessories are to be checked for serviceability, completeness and condition.		
18	SERVICE BRAKES	v	С		1			1	PUBLICATIONS . Verify that required publications are	20	AIR FILTERS. Verify that air filterelement is clean and (if required) oil level correct. Service aftereach
19	TRANSMISSION	С	С					В	aboard the equipment.		day of operationor more often if required.
20	AIR FILTER	٧	8					l	CLUTCH . Verify adjustment and tension. Note for signs of	21	FUEL FILTERS. Drain to prevent accumulation of condensation.
21	FUEL FILTER	5		s		ļ	ļ	9	excessive heating while underload.	۲'	
22	TIRES/TRACK	С	ļ	С	L			l	STEERING. Cover adequacy of all types of steering		TIRES/TRACKS. Tires to be inflated to recommended pressure and free from major cuts
23							<u> </u>	10	mechanisms, such as clutches, brakes, air, hydraulic.and gaar.	22	and bruies. Tracks to be properly adjusted for
24											tension and rollers correctly serviced.
26								11	ENGINE OPERATION. Check for irregular performance, such as misses and unusual noises. Verify adequacy of		
MOT	1. Add other coverage:					riate technic	cal		power by subjecting the equipment to a load-performance test.		
FRE	EMARKS			<u> </u>							
										l	NAVMC 10524 (Rev. 12-93) (EF) (Reverse)
						_			<del></del>		#U.S. GPO: 1995—836-083





Stop Hours

		er, Tra		Wheel	.ed	089	900A		SERIAL N		ORD OPENED	DATE RECORD (	CLOSED		TROL NO OR U
	REFERENCES:	OPERATION/M	AINTENANCE	тм 5-3	805-2	248-2	3-1		PARTS	- sl-4- <b>5 - 38</b>	<del>805-248</del>	-14&P-1	RECOR	DS-TM	4700-16/1
•	PMCS DUE: Use Pencil onl	<sub>v)</sub> 637	887	1387	2387	7				LAST SCHED		NEXT SCHEDULED (Enter Date Du			CATION DUE N CS (Enter Type
Ī	SCHEDULED PMCS	250	500	1000	200	9				FEB	09	FEB10	)		IAW TM
T		OPERAT	ION							SEF	RVICE				
	DATE	SPENDOME HOURMETER	READING	TOTAL HR/MI	GĄA	DIESEL	ONSUMP	OIL	OIL	AIR FILTER CLEANED/	HR/MI PMCS COMPLETED	ERO NO.	טאוי	т	SIGNATUF
Ļ			STOPPED	OPER.	'EBS	(GAL)	<b>10</b> ™	<b>30</b> <sup>∨⊤</sup>	90 <sup>wt</sup>	CHANGED	COMPLETED	<u> </u>			
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Stop Hours

Total-

SN	AVMC 10524 i: 0000-005-64	(Rev.12-93) ( 104 U/I: PG O	EF) Previous ed F 250	dition is obsolet	e.		co	NSOLIDA	ED ENGINI	ER EQUIPM	ENT OPER	ATION LO	G AND SERVICE RE	CORDS (4	700)	
		er, Tr		Wheel	Led	N □ 80	。 900A		SERIAL NI	D DAT	E RECORI	OPENED	DATE RECORD (	CLOSED		14063
SECTION A	REFERENCES	OPERATION/	MAINTENANC	<sub>етм</sub> 5-38	805-2	248-2	23-1		PARTS	- SL-4- <b>5 -</b>	3805	-248	-14&P-1	RECOR	DS-TM 4	4700-16/1
SEC	PMCS DUE: Use Pencil on		887	1387	2387	7				LAST SC (Enter D	HEDULED ate Perfor		NEXT SCHEDULED (Enter Date Du			CATION DUE NEXT CS (Enter Type)
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П		OPER/	ATION								SERVICE					
		SPEEDOM HOURINISTE	IETER OR R READING	TOTAL	GAA	T	ONSUMPT			AIR FILTER	.	HR/MI	F20 NO		_	212111 7117
	DATE	STARTED	STOPPED	HR/MI OPER.	EBS	DIESEL (GAL)	10WT	οιι <b>30</b> ντ	90WT	CLEANE CHANGE		PMCS OMPLETED	ERO NO.	UNI	1	SIGNATURE
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- Stop Hours
- Total
- POL's used
  - Grease-

Γ	N.	AVMC 10524 1: 0000-005-64	(Rev.12-93) (EF 104 U/I: PG OF 2	) Previous ed	dition is obsole	te.		COI	NSOLIDAT	ED ENGIN	EER EQU	JIPMENT (	OPERATION LO	G AND SERVICE RE	CORDS (4	1700)		
ľ			omenclature er, Tra		Wheel	Led	089	00A	измс оя <b>531</b>	SERIAL N . <b>025</b>	0	ı	CORD OPENED 10909	DATE RECORD	CLOSED		TROL NO OR U	JNIT
	SECTION A	REFERENCES	OPERATION/MJ	AINTENANCI	<sub>Е-ТМ</sub> 5-3	805-2	48-2	3-1		PARTS	- SL-4-	5-38	05-248	-14&P-1	RECOR	DS-TM	4700-16/1	
ŀ	35.	PMCS DUE: Use Pencil on		887	1387	2387							JLED PMCS erformed)	NEXT SCHEDULED (Enter Date Du			CATION DUE N CS (Enter Type	
		SCHEDULED PMCS	250	500	1000	2000						FEB	09	FEB16			IAW TM	
I.		_	OPERATI	ON								SER	VICE					
ı			SPEEDOMET HOURMETER #		TOTAL	GAA .		NSUMPT				AIR _TER	HR/MI	FRO NO	UNI	-	OLOMA TUR	DE
t	+	DATE		STOPPED	HR/MI OPER.		GAL)	OIL OWT	оц <b>30</b> VT	90WT		ANED/ NGED	PMCS COMPLETED	ERO NO.	ONI		SIGNATUI	RE
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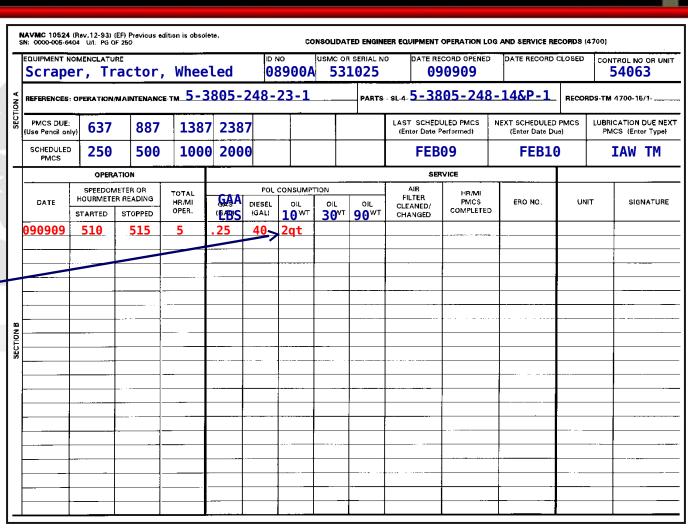
- Stop Hours
- Total
- POL's used
  - Grease
  - Fuel-

Ī	N.	AVMC 10524 N: 0000-005-64	(Rev.12-93) ( 04 U/I: PG O	EF) Previk F 250	ous edition	ı is obsolet	e.			ONSOLIDA	TED ENGIN	IEER EQ	UIPMENT	OPERATION LO	OG AND SERVICE RI	ECORDS (	4700)	
		Scrape			or, V	Mheel	Led	© 8	。 900A		1025	10	1	CORD OPENED	DATE RECORD	CLOSED		TROL NO OR UNIT
	NON A	REFERENCES:	OPERATION/	MAINTEN	IANCE:TM	5-38	3 <b>05</b> -2	248-2	23-1		PARTS	- SL-4-	5-38	05-248	8-14&P-1	RECOF	₹DS-TM	4700-16/1
	SECTION	PMCS DUE: (Use Pencil onl	<sub>v)</sub> 637	88	87	1387	238	7						JLED PMCS 'erformed)	NEXT SCHEDULED (Enter Date De			ICATION DUE NEXT
ı		SCHEDULED PMCS	250	50	00	1000	200	9					FEB	09	FEB1	9		IAW TM
			OPER/	ATION									SER	VICE				
ı	ľ		SPEEDOM HOURMETE		ا م	DTAL _	GAA	T	ONSUMP	T			AIR LTER	HR/MI		Г <u></u> .		
		DATE	STARTED	STOPPE		R/MI PER.	(EAB)S	DIESEL (GAL)	01L 10WT	30 <sup>VT</sup>	90WT	CLE	ANED/ ANGED	PMCS COMPLETED	ERO NO.	UN	IT	SIGNATURE
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- Stop Hours
- Total
- POL's used
  - Grease
  - Fuel
  - Hydro







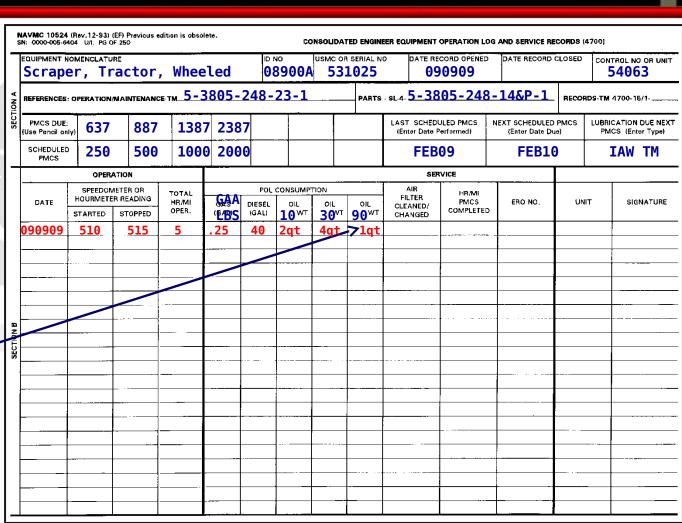
- Stop Hours
- Total
- POL's used
  - Grease
  - Fuel
  - Hydro
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A S	AVMC 10524 N: 0000-005-64	(Rev.12-93) ( IO4 U/I: PG O	(EF) Previous e F 250	dition is obsole	te.		cons	DUDAT	ED ENGINE	ER EQUIPMENT	OPERATION LO	OG AND SERVICE REG	CORDS (4	700)	
	Scrape			, Whee	Led	D NO	00 <b>0A</b>		SERIAL NI	I	0909	DATE RECORD O	LOSED		TROL NO OR UNIT
SECTION A	REFERENCES	OPERATION/	MAINTENANC	<sub>Б.ТМ</sub> 5-3	805-2	48-2	3-1		PARTS	- sl-4- <b>5 - 38</b>	05-248	8-14&P-1	RECOR	OS-TM	4700-16/1
SECT	PMCS DUE: (Use Pencil on	<sub>(v)</sub> 637	887	1387	2387					LAST SCHEDU (Enter Date P		NEXT SCHEDULED (Enter Date Due			CATION DUE NEXT CS (Enter Type)
	SCHEDULED PMCS	250	500	1000	2000					FEB	99	FEB10			CAW TM
		OPER/	ATION							SER	VICE				
	DATE	SPEEDOM HOURMETE	R READING	TOTAL HR/MI		DIESEL	NSUMPTION OIL	OIL	OIL	AIR FILTER CLEANED/	HR/MI PMCS	ERO NO.	UNI	г	SIGNATURE
	090909	STARTED 510	STOPPED 515	OPER.	LUJ		gt 4		90 <sup>wt</sup>	CHANGED	COMPLETED	,			
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- Stop Hours
- Total
- POL's used
  - Grease
  - Fuel
  - Hydro
  - OE
  - GO







- Air Filter
  - Service
    - CL / CH-

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NAVMC 10524 (Rev.12-93) (EF) Previous edition is obsolete



- Air Filter
  - ServiceCL / CF
- 8-10 hr PMCS Complete- Initial

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 Every day or every shift starts a new line.

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Questions?



THINKING

It's a no brainer





## 10 min break





# NAVMC 10524 PRACTICAL APPLICATION





RI		toi, Meur	um Crawl				1503A		SERIAL N		CORD OPENED	DATE RECORD	CLOSED	50N	TROL NO OR UNIT 4063
!	EFERENCES	OPERATION.	/MAINTENAN	11 CE-TM	.503A-O	01/3			PARTS	- \$L-4-	30-A		RECOR	RDS-TM	4700-16/1
	PMCS DUE: se Pencil on		1000	200	400	500 0				LAST SCHED		NEXT SCHEDULED (Enter Date Do			CATION DUE NEX CS (Enter Type)
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		OPER/	ATION							SEF	RVICE				
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	Leg	gend for mark	king				ITEN	COVERAGE AND PROCEDURE	ITEM	COVERAGE AND PROCEDURE,
a - Adjust equired :- Check	S - Servic V - Verify	8	· · · · · · · · · · · · · · · · · · ·	·	ustment/Rep		1	DAMAGE, PILFERAGE, LOSS.  Examine for signs of any obvious damage, pilferage or loss of components, attachments, or accessories.	12	UNUSUAL NOISES. Note for signs of metal grinding, squealing, or thumping. Observe for signs of excessive backlash and worn sheave bushin or gears.
COVERAGE	BEFORE	OPERATION	AFTER	8 HOUR	10 HOUR		2	compartment for signs of fuel, oil, water, gear oil, or brake fluid leaks.	13	LIGHTS AND REFLECTORS. Test for adequac performance and service ability. Broken or crack lenses and reflectors are to be replaced.
DAMAGE, PILFERAGE, LOS:  LEAKS, GENERAL  FURI, OIL, WATER  ENGINE, WARMUP  INSTRUMENTS  SAFETY DEVICES  TOOLS AND EQUIOMENT  PUBLICATIONS  CLUTCH  STEERING  LIGHTS AND REFLECTORS  AIR TANKS  BATTERY ELEC, LEVEL  ANTIFREEZE TEST TO  SERVICE BRAKES  TRANSMISSION  AIR FILTER  TIPES/TRACK  TIPES/TRACK  TIPES/TRACK  TOOLS AND EQUIOMENT  PUBLICATIONS  AIR TANKS  AIR TANKS  TRANSMISSION  AIR FILTER  TRANSMISSION  AIR FILTER  TIPES/TRACK	C C C C C C C C C C C C C C C C C C C	c c c c c c c s	x c s s c s c s c s c s	he approp	riate technic	cal	3 5 7 8 9 10 111	gear.  ENGINE OPERATION. Check for irregular performance,	16 17 18 19	AIR TANKS. Drain to prevent accumulation of condensation or freezing.  DRIVE BELTS. Varifyadjustments and cortion. Belts having oil and grease on thate to be cleaned as soon as possible.  BATTERY LEVEL. Electrolytelevel to be specificated by the TM. Reportany excessive water consumption to the equipment chief. Terminals be clean and tight.  ANTIFREEZE. Degree of protection to be verificated and tight.  ANTIFREEZE. Degree of protection to be verificated and tight.  SERVICE BRAKES. Verify properadjustment acquipment chief. SERVICE BRAKES. Verify properadjustment and protected cooling system without consulting the equipment.  TRANSMISSION. Check fluid level in accorder with TM. Check for overheating during operation and fir required/oil level correct. Service aftered and fir required/oil level cortect. Service aftered and of operation or more often if required.  FUEL FILTERS. Drain to prevent accumulation condensation.  TIRES/TRACES. Tices to be inflated to recommended pressure and free from major cut and bruies. Tracks to be properly adjusted for tension and rollers correctly serviced.



## OPERATOR RESPONSIBILITIES



## 10 min break





## **ACCIDENT FORMS**





Motor Vehicle Accident Report

**SF 94** 

Statement of Witness

**DD 518** 

**Accident-Identification Card** 



## **OVERVIEW**



- 91, 94, DD518
  - Purpose
  - Operator Responsibilities
  - Preparation instructions





# SF 91 Motor Vehicle Accident Report





#### Purpose

Provide a detailed report of any accident involving a motor vehicle





- Operator Responsibilities
  - The Operator of the vehicle involved is responsible for submitting this report.
    - The operator fills out sections 1 9.
    - A Second party can initiate for the operator using any witness (s) if the operator is unable to complete the report.





- Supervisor's Responsibilities
  - The Operator's supervisor (OIC) will fill out section 10.





- Investigating Officer's Responsibilities
  - If it is determined that an investigation is needed the Investigating Officer will fill out sections 11 - 13 Per the JAG Manual.
  - Investigations are initiated when the accident has caused bodily injury, a fatality and/or damage exceeding \$500.





### Preparation Instructions

- Self-explanatory
- Instruction are located on Pg 1.

INSTRUCTIONS: Sections I thru IX are filled out by the vehicle operator. Section X, Items 72 thru 82c are filled out by the operator's supervisor. Sections XI thru XIII are filled out by an accident investigator for bodily injury, fatality, and/or damage exceeding \$500.

SECTION I. SEDEBAL VEHICLE DATA





### Filing

 All operators will Carry (1) SF 91 per vehicle while operating

#### Disposition

 The dispatcher will retain the SF 91 with the accident investigation for a minimum of one year.

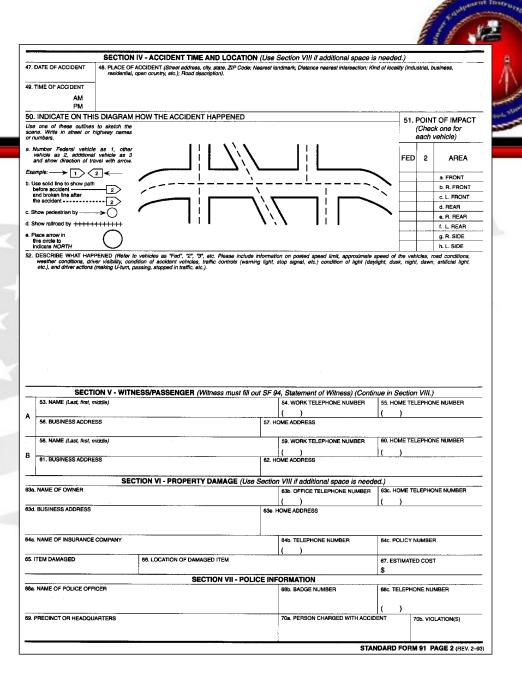


- (4) Page's
- Fill out sec. 1-9
- Read directions
- Page 1

										15	Aprile
MOTOR VEHICLE ACCIDENT REPORT	Please read Privacy Act ment on Pa	State-	accident inve	e lilled estigato	out by the r for bodily i	operator's s njury, fatality,	upervisor. and/or dar	Sections X	I thru XIII		
1. DRIVER'S NAME (Last, first, mi	ddie)		SECTION	NI-FE	DERAL VE	2. DRIVER'S L		STATE/LIMITA	ITIONS 3. DA	TE OF ACCI	DENT
4a. DEPARTMENT/FEDERALAGE	ENCY PERMANEN	T OFFICE	ADDRESS			1			4b. WORK TI	LEPHONE	NUMBER
5. TAG OR IDENTIFICATION NUM	IBER	6 EST. R	EPAIR COST	7 YEAR	OF VEHICLE	B. MAKE		9. MODEL	! * .	O. SEAT BEI	TS USED
11. DESCRIBE VEHICLE DAMAG	E	•						I	1.		
	SECTION	II - OTE	IER VEHICL	F DAT	▲ (Use Sec	tion VIII if add	Itional spac	e is needed	.)		
2. ORIVER'S NAME (Last, first, )		11-011	ICH VEHICE	LUNI	, (000 000		13. DRIVER	'S LICENSE I	NUMBER/STAT	E/LIMITATIO	NS
4a. DRIVER'S WORK ADDRESS	1						ı		14b. WORK 1	ELEPHONE	NUMBER
5a. DRIVER'S HOME ADDRESS	3								15b. HOME T	ELEPHONE	NUMBER
6. DESCRIBE VEHICLE DAMAG	E								17 ESTIMAT	ED REPAIR	COST
8, YEAR OF VEHICLE 19. N	MAKE OF VEHICLE	!			20. MODEL 0	OF VEHICLE			21. TAG NUN	BER AND S	TATE
22. DRIVER'S INSURANCE COM	MPANY NAME AND	ADDRESS	3		ł				22b. POL CY	NUMBER	
									22c. TELEP~	ONE NUMB	ER
3. VEHICLE IS	RENTAL		24a, OWNER'S	NAME(S)	(Last, first, mi	ddiaj			24b. TELEPH	IONE NUMB	ER
LEASED	PRIVATELY DW	VNED							( )		
a. Strict of Abbricos(ES)			LLED OR IN		/// C#	- 100 K adami		(dd )			
26. NAME (Last, first, middle,		IN III - KI	LLED OH IN	JURED	(DSB JBLIK	er vin n alban	она врасе	is riseusu.)	27. SEX	26. DATE	OF BIRTH
29. ADDRESS										1	
30. MARK "X" IN TWO APPR	VER PASS	SENCER ESTRIAN	31. N WHICH V		32. LOCAT (	ON IN VEHICLE	33. FI	RST AID GIVE	N BY		
34. TRANSPORTED BY		TRANSPO		1-7	1			-			
36, NAME (Last, first, middle,									37. SEX	38. DATE	OF BIRTH
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40. MARK "X" IN TWO APPR KILLED DRIN INJURED HEU	PER PEDE	SENGER ESTRIAN	41. IN WHICH V		42. LOCATH	ON IN VEHICLE	43. FI	RST AID GIVE	N BY		
44. TRANSPORTED BY		. TRANSPO	DRTED TO								
a. NAME OF ST	REET ON HIGHWA	AY			b. OI FRO	RECTION OF PE	DESTRIAN (		(E corner, etc.) TO		
6. Pedes- trian c. Describe with hitenhiking, et	HAT PEDESTRIAN	I WAS DO	ING AT TIME OF	ACCIDEN	 IT (Crossing in	tersection with si	gnal, against s	ignal, diagona	illy: m roadway j	daying, walki	ng,
SN 7540-00-634-4041 evious edition not usable						91-110	· · ·	STAND	ARD FORM	91 PAGE	1 (REV. 2-
OVERAGE BORDON (NO); USBBHB								Prescribe	d by GSA - FPMF	1101-38.6	



- (4) Pages
- Fill out sec. 1-9
- Read directions
- Page 2



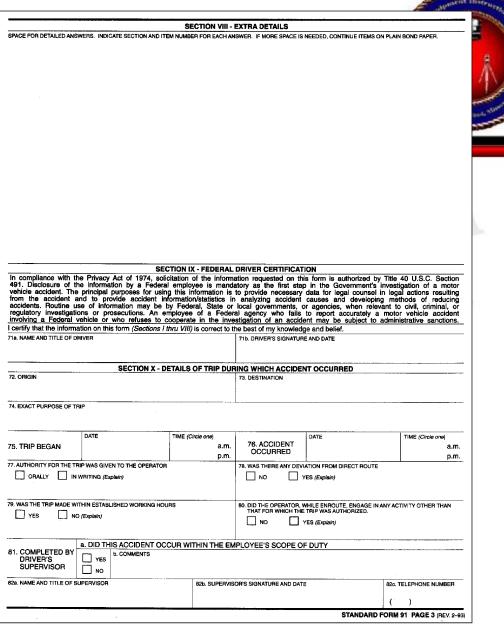


• (4) Pages

• Fill out sec. 1-9

Read directions

Page 3





- (4) Pages
- Fill out sec. 1-9
- Read directions

Page 4

	DENT INVESTIGATION DATA	_
83. DID THE INVESTIGATION DISCLOSE CONFLICTING INFORMATION. YES		_
	_	
	ONS INTERVIEWED	_
NAME DATE	NAME DATE	
a.	Ç.	
	d.	
b.	g.	
85. ADDITIONAL COMMENTS (Indicate section and item number for each comment.)		
SECTION	XII - ATTACHMENTS	_
LIST ALL ATTACHMENTS TO THIS REPORT	AL ALIAGOMENTO	
SECTION XIII - (	COMMENTS/APPROVALS	
86. REVIEWING OFFICIAL'S COMMENTS		
87. ACCIDENT INVESTIGATOR	88. ACCIDENT REVIEWING OFFICIAL	_
a. SIGNATURE AND DATE	a. SIGNATURE AND DATE	
b. NAME (First, middle, last)	b. NAME (First, middle, last)	_
errore (,	,	
c. TITLE	C. TITLE	
*· · · · · · · ·		
d. OFFICE	d. OFFICE	_
W. O. F. 1000		
8. OFFICE TELEPHONE NUMBER	e. OFFICE TELEPHONE NUMBER	
( )	( )	
*U.S.GPO:1995-390-660/09125	STANDARD FORM 91 PAGE 4 (REV. 2	93)





## Questions?





# SF 91 PRACTICAL APPLICATION





## 10 min break





## SF 94 Statement of Witness





#### Purpose

Provides a detailed statement from any accident witness

 Per section 5 of the SF91 witness' must fill out the SF 94





### Responsibilities

Operator request that witness complete
 SF 94

- Voluntary for the public
- Mandatory for government employees





- Preparation Instructions
  - Self-explanatory
- Filing
  - All operators will carry (2) SF 94's per vehicle while operating
- Disposition
  - The dispatcher will retain the SF94 with the SF 91 and keep them on file for a minimum of one year



• (2) Pages

• Page 1

CTATE	MENT OF WITNESS	1. DID YOU SEE THE ACCIDENT?	2. WHEN DID THE ACCID		FORM APPROVED
	additional sheets if necessary)	ACCIDENT!	a. TIME <i>a.m.</i>	b. DATE	O.M.B. NUMBER 3090-0118
3. WHERE	DID THE ACCIDENT HAPPEN?	(Give street location and city)			- 1
4. TELL I	N YOUR OWN WAY HOW THE A	CCIDENT HAPPENED			
5. WHERE	E WERE YOU WHEN THE ACCIDENT	OCCURRED?			
6. WAS A	NYONE INJURED, AND IF SO, E	XTENT OF INJURY IF KNOWN?	,		And And Company of the
7 05000	NOS TUS ADDADSNY DAMAGE TO	DOWLATE DEODEROTY			
7. DESCR	MBE THE APPARENT DAMAGE TO	PRIVATE PROPERTY			
8. DESCR	RIBE THE APPARENT DAMAGE TO	GOVERNMENT PROPERTY			9. IF TRAFFIC CASE, GIVE APPROXIMATE SPEED OF:
					a. GOVERNMENT VEHICLE Miles per Hr.
					b. OTHER VEHICLE Miles
10. GIVE T	HE NAMES AND ADDRESSES OF A	NY OTHER WITNESSES TO THE	ACCIDENT (If known)		per br.
	11. HOME ADDRESS (Include Zi	P Code)	12. WITNESS (Print Nar	ne)	a. HOME TELEPHONE NO.
WITNESS COM- PLETING THIS FORM			Sign		b. TODAY'S DATE
THIS FORM	13. BUSINESS ADDRESS (Includ	ie ZIP Code)	Sign bere		TELEPHONE NO.
1	ATE ON THE DIAGRAM BELOW V  I. Number Federal vehicle as I -ost as 3, and show direction of travel (Example: 1)  I. Use solid line to show path before Broken line after accident	er vehicle as 2-additional vehicle by arrow	<ol> <li>Show railroad by</li> <li>Give names or m</li> </ol>	ty	
NSN 7540-0 94-105	0-634-4045		***	F	STANDARD FORM 94 (REV. 2-83) Prescribed by GSA, FPMR 101-39.8



• (2) Pages

• Page 2

#### FILE REFERENCE:



This office has been notified that you witnessed an accident which occurred

It will be helpful if you will answer, as fully as possible, the questions on the other side of this letter. Please read the Privacy Act Statement below.

Your courtesy in complying with this request will be appreciated. An addressed envelope, which requires no postage, is enclosed for your convenience in replying.

Sincerely

#### Enclosure

Use by the public is voluntary. In compliance with the Privacy Act of 1974, the following information is provided:
Solicitation of the information requested on this form is authorized by Title 40 U.S.C. Section 491, Disclosure of the
Information of the Information and Information of the Information of Information Information of Information Information Information Information I

± U.S.G.P.O.: 1966 -491-248/20679

STANDARD FORM 94 BACK (REV. 2-83)





## Questions?





## DD 518 Accident-Identification Card



### **DD** 518



## Purpose

 Provides any person(s) involved in an accident all the information they require of the operator.



### **DD** 518



Responsibilities

- Complete as many copies as required

- Second party may complete the DD 518 utilizing the:
  - NAVMC 10523 (Trip Ticket)
  - OF-346 (Operators License)



### **DD 518**



- Preparation Instructions
  - Self-explanatory
- Filing
  - The operator will carry several per vehicle while operating
- Disposition
  - Give to all interested parties at the scene of the accident that may require your information





• (2) Sided

MAKE AND TYPE OF VEHICLE	E REVERSE,
be addressed to :  MAKE REFERENCE  DATE OF ACCIDENT  MAKE AND TYPE OF VEHICLE	
MAKE REFERENCE DATE OF ACCIDENT  MAKE AND TYPE OF VEHICLE  REGISTRATION NO	<u>то</u>
MAKE AND TYPE OF VEHICLE	
REGISTRATION NO	
DRIVER (Last name - first name - initial)	
SSN	GRADE
ORGANIZATION	
ORGANIZATION	

(FRONT)

S/N 0102-LF-000-5180

#### PRIVACY ACT STATEMENT

AUTHORITY: Sec 638a Title 31. USC and EO 9397.

PRINCIPAL PURPOSE: To provide persons involved in an accident with a DoD owned/ leased vehicle the identity of the person with the authority to act on the matter.

ROUTINE USES: Placed in each vehicle for purpose stated above. When a DoD vehicle is involved in an accident, the driver provides the other party(s) with a properly executed DD form 518. The SSN is requested because of similarity of names, to further identify the driver of the DoD vehicle.

DISCLOSURE IS VOLUNTARY. No disciplinary action is taken in cases where the SSN is not provided.

(BACK)



## **SUMMARY**



- 91, 94, DD518
  - Purpose
  - Operator Responsibilities
  - Preparation instructions





## Questions?





## 10 min break





## Operational Risk Management



#### WIIFM



 With this class you will be acquainted with the Operational Risk Management program concept, process and how to implement during your daily operations.



#### **OVERVIEW**



Operational Risk Management

- Concept
- Terms
- Process









#### Decision making tool

- Used by all people at all levels
- Increase operational effectiveness
  - Anticipating hazards
  - Reducing the potential for loss
  - Increasing probability of a successful mission





 Increases our ability to make informed decisions, by:

- •Providing the best baseline of:
  - Knowledge
  - Experience





 Minimizing risks to <u>acceptable levels</u> based on mission accomplishment

- Risk in war > than in peacetime
- Process is still the same





•Applying the ORM Concept will:

- Reduce mishaps
- Lower costs
- Provide for more efficient use of resources









- Hazard A condition with the potential to cause:
  - Personal injury
  - Death
  - Property damage
  - Mission degradation
- Risk Expression of possible loss in terms of:
  - Severity
  - Probability





Risk Assessment

 A process of detecting hazards & Assessing associated risks





- Operational Risk Management
  - A process of dealing with risks associated with Military operations, which include:
    - Risk assessment
    - Risk decision making
    - Implementation of effective risk controls





## 10 min break









#### •A five step process:

- Identify hazards
- Assess hazards
- Make risk decisions
- Implement controls
- Supervise





#### 1) Identify Hazards:

- Outline / chart major steps in the operation
- (Operational analysis)
- Conduct preliminary hazard analysis
- List all hazards associated with each step
- List all causes of those hazards





#### 2) Assess Hazards:

- Each hazard identified
- Determine associated risk
  - Probability
  - Severity





#### 3) Make Risk Decisions:

- Develop risk control options
  - Serious risk first
    - Select controls to reduce risk
    - (Mission accomplishment)
- Controls in place decide
  - Benefit of operation outweigh risk?
  - Communicate with higher authority
    - Chain of Command





#### 4) Implement Controls

- These are measures that can be implemented to eliminate hazards or reduce the degree of risk.
  - Engineering controls
  - Administrative controls
  - Personal protective equip





#### Engineering Controls

- Engineering methods to reduce risks.
  - Design
  - Material selection
  - Material substitution
    - Technically feasible
    - Economically





#### Administrative Controls

- Reduce risk through specific admin actions.
  - Provide suitable:
    - Warnings
    - Markings
    - Signs
    - Notices
- Establish written:
  - Policies
  - Programs
  - Instructions
  - SOPs





#### Administrative Controls

- Train Personnel to:
  - Recognize hazards
  - Take appropriate actions
  - Limit the exposure to a hazard
  - Reduce number of personnel/assets
  - Length they are exposed





Personal protective equipment

 Serves as a barrier between personnel & hazard

 Used when other controls do not reduce the hazard to an acceptable level





#### 5) Supervise

- Conduct-follow up evaluations of controls to ensure they:
  - Remain in place
  - Have the desired effect
- Continuously monitor for changes and take corrective action when needed





## 10 min break









- ORM exists on three levels:
  - Time-critical
  - Deliberate
  - In-depth
- Commander selects which level of ORM depending on:
  - Mission
  - Situation
  - Time available
  - Proficiency level
  - Assets available





#### Objective of ORM:

•Develop sufficient proficiency in applying the process so that ORM becomes an automatic or intuitive part of our decision making methodology.





#### Time Critical

- "On the run" mental or oral review of the situation
- Uses the five-step process without recording the information on paper
- Employed by experienced personnel
- Used to consider risks in a time-compressed situation





- Normally used:
  - During the execution phase of training or operations
  - In planning during crisis response scenarios
- Helpful in choosing course of action when an unplanned event occurs





#### Deliberate

- This is the complete application of the five-step process:
  - Used for planning an operation or evaluating procedures
  - Most effective when conducted in a group





#### •In-Depth

- Deliberate process with a more thorough assessment
  - Research of available data
  - Use of diagram and analysis tools
  - formal testing
  - Long term tracking of the hazards





# FOUR PRINCIPALS OF ORM



## FOUR PRINCIPLES OF ORM



1) Accept risk when the benefits outweigh the cost

- MCDP, War fighting, states,

"Risk is inherent in war and is involved in every mission. Risk is also related to gain; normally greater potential gain requires greater risk."



## FOUR PRINCIPLES OF ORM



The goal of ORM is not to eliminate risk, but to manage the risk so that the mission can be accomplished with the minimum amount of loss.



## FOUR PRINCIPLES OF ORM



2) Accept no unnecessary risk

MCDP also states,

"We should clearly understand that the acceptance of risk does not equate to the imprudent willingness to gamble..."

Take only risks necessary to accomplish the mission



## FOUR PRINCIPLES OF ORM



### 3) Anticipate and manage risk by planning

Controlled easier when identified early



## FOUR PRINCIPLES OF ORM



- 4) Make risk decisions at the right level
  - Leader directly responsible for the operation makes risk management decisions
  - Critical Elements:
    - Prudence
    - Experience
    - Intuition
    - Situational awareness of leaders









Used during the second step of ORM

 Can provide a consistent framework for evaluating work

- Based on:

Elements of hazard severi

Mishap probability

Risk Management Matrix OPNAVINST 3500.39B		PR	OBA	BILI	TY
		A	B Probable	C	II Unlikely
101	I Death, Loss of Asset	1	1	2	3
	II Severe Injury.	1	2	3	4
	III Minor Injury.	2	3	4	5
	IV Minimal Threat	3	4	5	5
-	Threat  Critical ASerious	3	4	nor N	





•Hazard severity:

Assessment of the worst consequence or result of a hazard.

- Severity potential degree of:
  - Injury
  - Illness
  - Property damage
  - Loss of assets (time \$ personnel)
  - Effect on mission





- Hazard severity: Four categories
  - Category I
    - Death
    - Loss of facility
    - Grave damage to national interests
  - Category II:
    - Severe injury
    - Property damage
    - Damage to national interests





Hazard severity: Four categories

- Category III:
  - Minor injury
  - Minor property damage
  - Minor damage to national interests
- Category IV: Minimal Threat





#### •Mishap Probability:

- Hazard will result in a mishap / loss based on:
  - Location
  - Exposure
  - Affected populations
  - Experience
  - Previous information





#### •Mishap Probability: 4 sub-categories

- Sub-category A:
  - Likely to occur immediately or within a short period of time
- Sub-category **B**:
  - Probably will occur in time
- Sub-category C:
  - May occur in time
- Sub-category **D**:
  - Unlikely to occur





- Risk Assessment Code (RAC). The RAC is an expression of risk which combines the elements of hazards, severity, and mishap probability.
- RAC 1. Critical
- RAC 2. Serious
- RAC 3. Moderate
- RAC 4. Minor
- RAC 5. Negligible





Risk Manageme nt Matrix		Probability				
		A	${f B}$ Probabl	C May	<b>D</b> Unlikel	
\ \ \	I Death,	1	<sup>e</sup> 1	2	<sup>y</sup> 3	
everity	II SeveFe Injury,	1	2	3	4	
Seve	III Minor Injury,	2	3	4	5	
	${ m IV}^{rac{{ m Damage}}{{ m Minimal}}}$	3	4	5	5	





# ORM PRACTICAL APPLICATION





### Questions?



#### **SUMMARY**



- -Technical Manuals
- -Lubrication orders
- -Levels of maintenance
- -POL
- -Tools
- -Records and forms
- -ORM



#### **BREAK**



### 10min break